

## Pantheon Report

Generated at 2018-04-17 01:13:15 (UTC).

Data path: Colombia ppp0 (*remote*) → AWS Brazil 2 Ethernet (*local*).

Repeated the test of 16 congestion control schemes 3 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

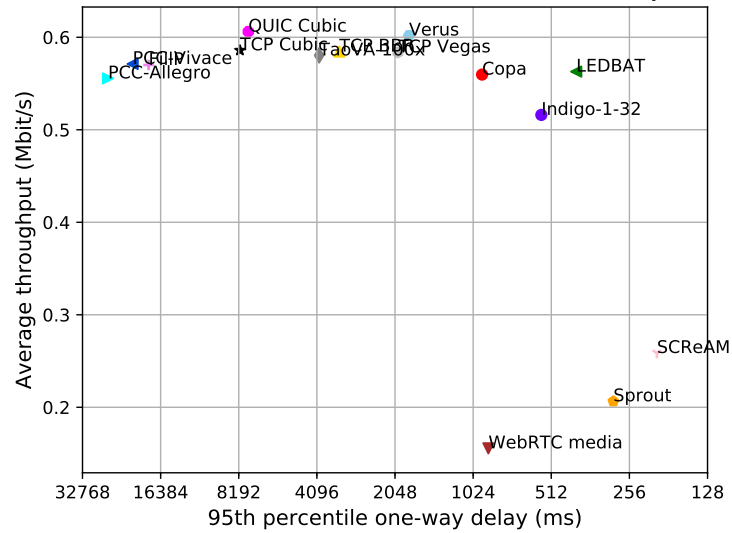
NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

Git summary:

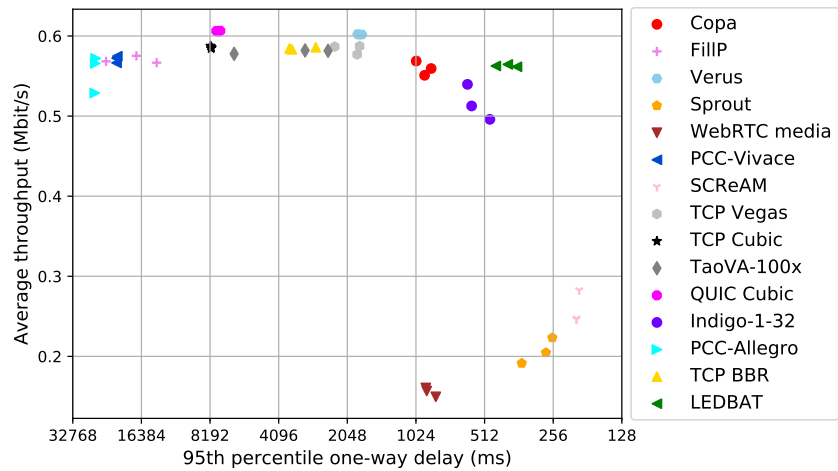
```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
```

third\_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581

test from Colombia ppp0 to AWS Brazil 2 Ethernet, 3 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



test from Colombia ppp0 to AWS Brazil 2 Ethernet, 3 runs of 30s each per scheme  
3 flows with 10s interval between flows





Run 1: Statistics of TCP BBR

Start at: 2018-04-16 23:15:39

End at: 2018-04-16 23:16:09

Local clock offset: -5.05 ms

Remote clock offset: 7.207 ms

# Below is generated by plot.py at 2018-04-17 01:12:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 3670.861 ms

Loss rate: 4.26%

-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 3621.387 ms

Loss rate: 2.02%

-- Flow 2:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 3709.309 ms

Loss rate: 6.40%

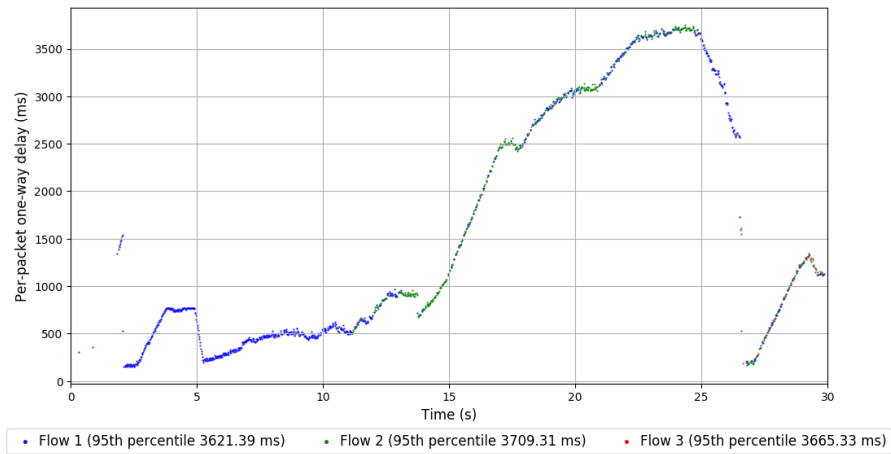
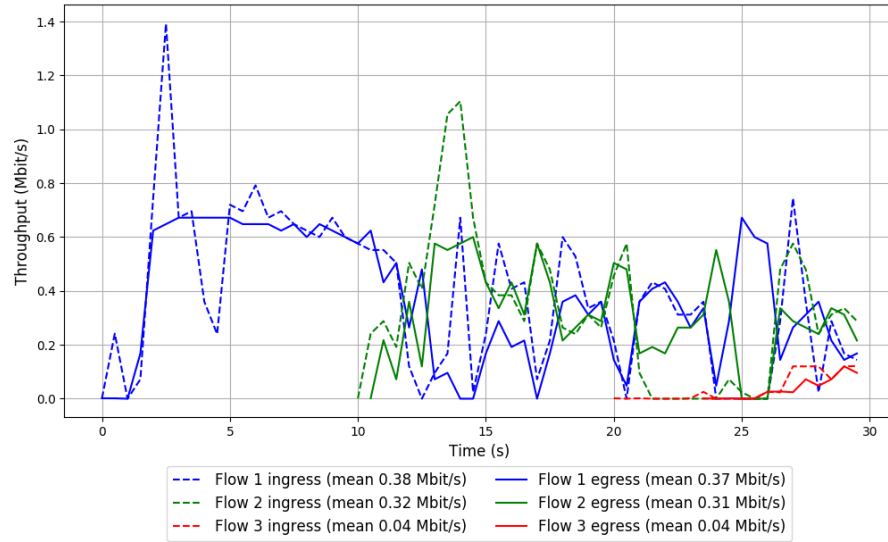
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 3665.329 ms

Loss rate: 35.19%

# Run 1: Report of TCP BBR — Data Link

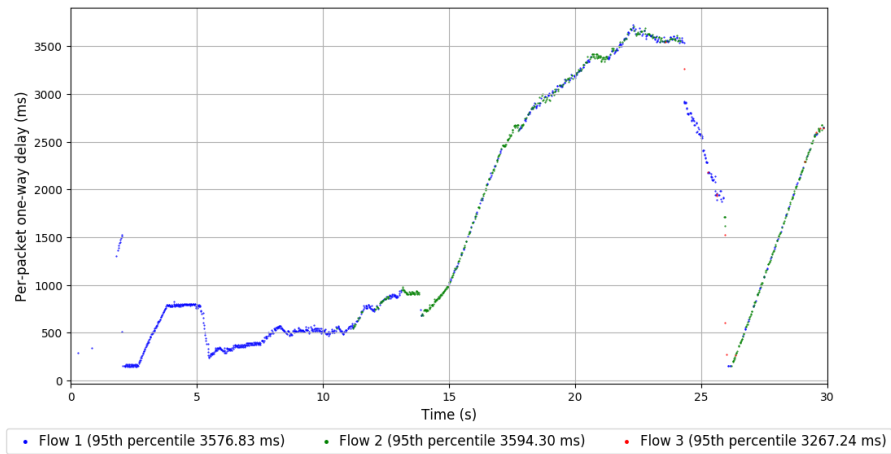
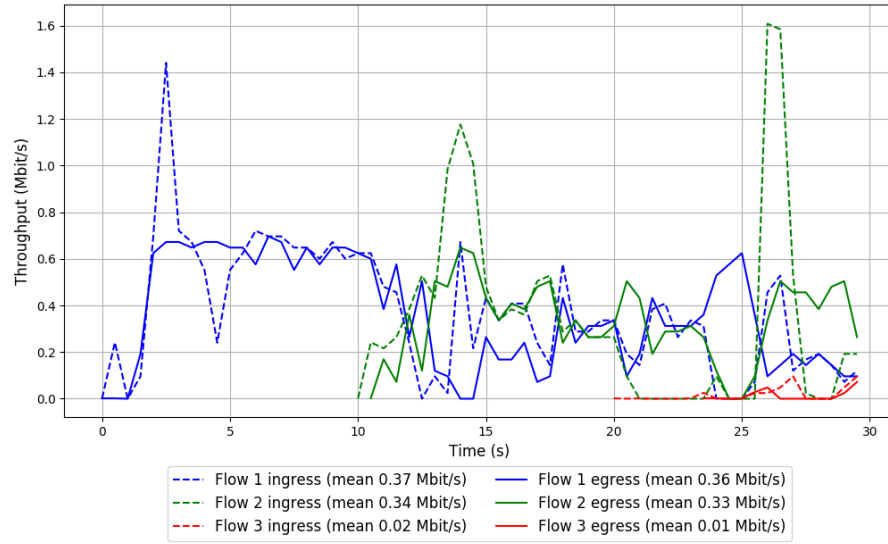


Run 2: Statistics of TCP BBR

Start at: 2018-04-16 23:37:06  
End at: 2018-04-16 23:37:36  
Local clock offset: -5.352 ms  
Remote clock offset: 12.237 ms

# Below is generated by plot.py at 2018-04-17 01:12:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.58 Mbit/s  
95th percentile per-packet one-way delay: 3584.203 ms  
Loss rate: 4.71%  
-- Flow 1:  
Average throughput: 0.36 Mbit/s  
95th percentile per-packet one-way delay: 3576.833 ms  
Loss rate: 3.45%  
-- Flow 2:  
Average throughput: 0.33 Mbit/s  
95th percentile per-packet one-way delay: 3594.301 ms  
Loss rate: 5.49%  
-- Flow 3:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 3267.242 ms  
Loss rate: 52.06%

## Run 2: Report of TCP BBR — Data Link



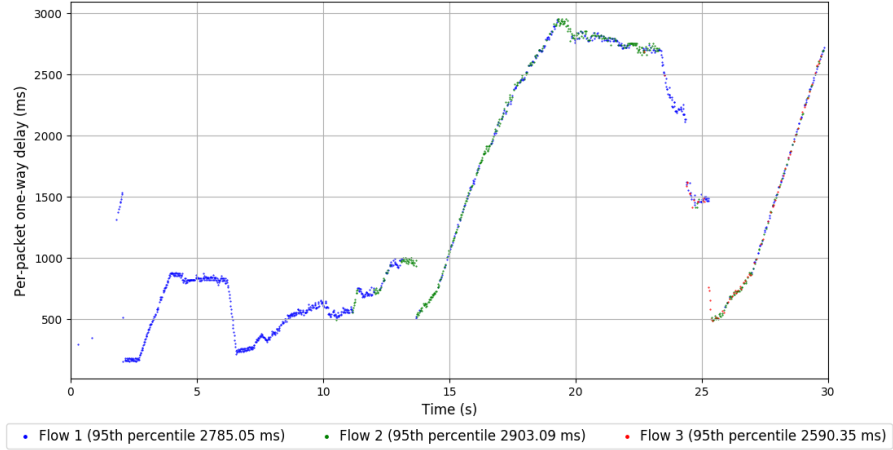
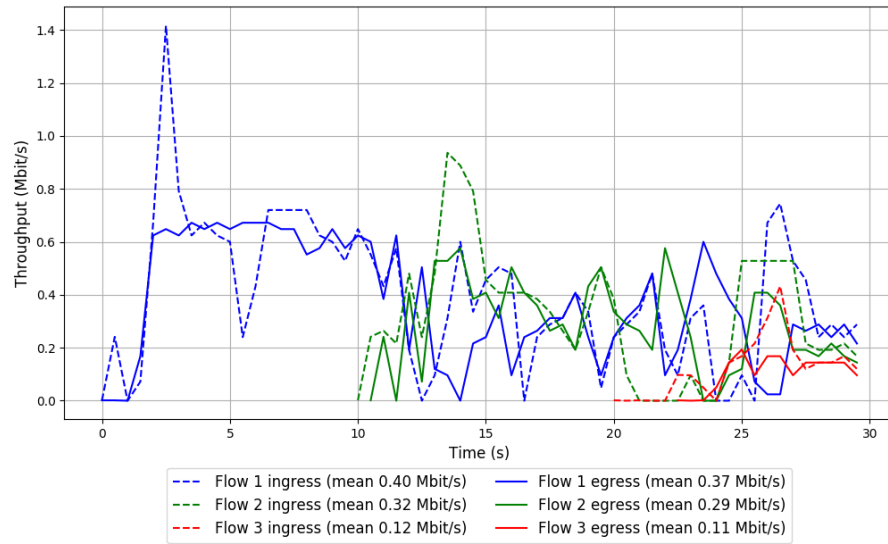


Run 3: Statistics of TCP BBR

Start at: 2018-04-16 23:58:33  
End at: 2018-04-16 23:59:03  
Local clock offset: -5.377 ms  
Remote clock offset: 10.862 ms

# Below is generated by plot.py at 2018-04-17 01:12:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.59 Mbit/s  
95th percentile per-packet one-way delay: 2814.773 ms  
Loss rate: 10.49%  
-- Flow 1:  
Average throughput: 0.37 Mbit/s  
95th percentile per-packet one-way delay: 2785.048 ms  
Loss rate: 7.80%  
-- Flow 2:  
Average throughput: 0.29 Mbit/s  
95th percentile per-packet one-way delay: 2903.090 ms  
Loss rate: 11.07%  
-- Flow 3:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 2590.347 ms  
Loss rate: 33.92%

### Run 3: Report of TCP BBR — Data Link

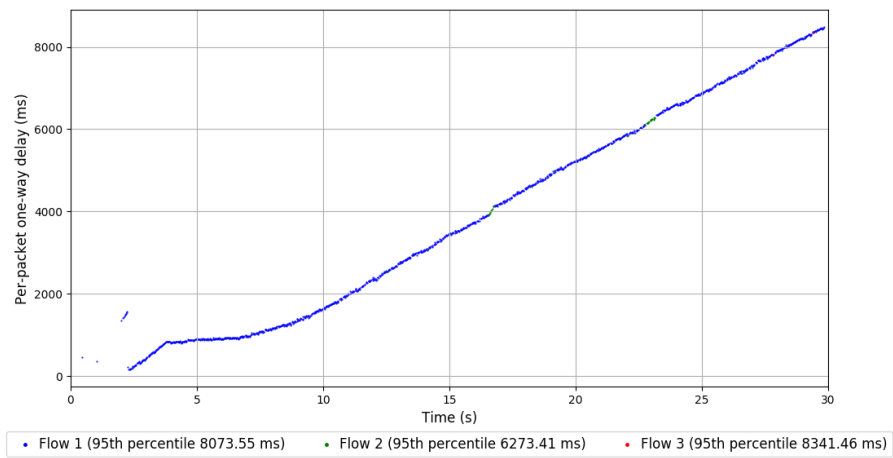
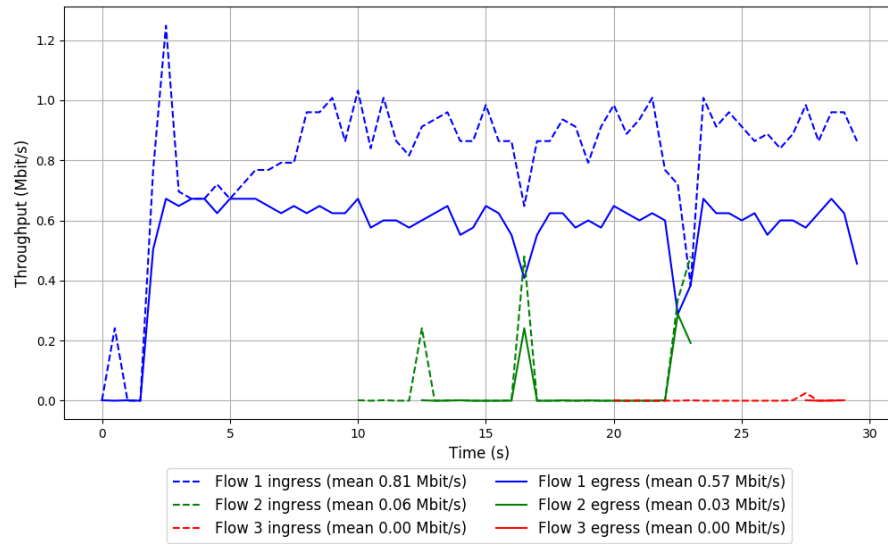


Run 1: Statistics of TCP Cubic

Start at: 2018-04-16 23:16:54  
End at: 2018-04-16 23:17:24  
Local clock offset: -5.842 ms  
Remote clock offset: 12.843 ms

# Below is generated by plot.py at 2018-04-17 01:12:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.59 Mbit/s  
95th percentile per-packet one-way delay: 8063.528 ms  
Loss rate: 31.50%  
-- Flow 1:  
Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 8073.553 ms  
Loss rate: 30.78%  
-- Flow 2:  
Average throughput: 0.03 Mbit/s  
95th percentile per-packet one-way delay: 6273.408 ms  
Loss rate: 52.83%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 8341.457 ms  
Loss rate: 91.06%

# Run 1: Report of TCP Cubic — Data Link

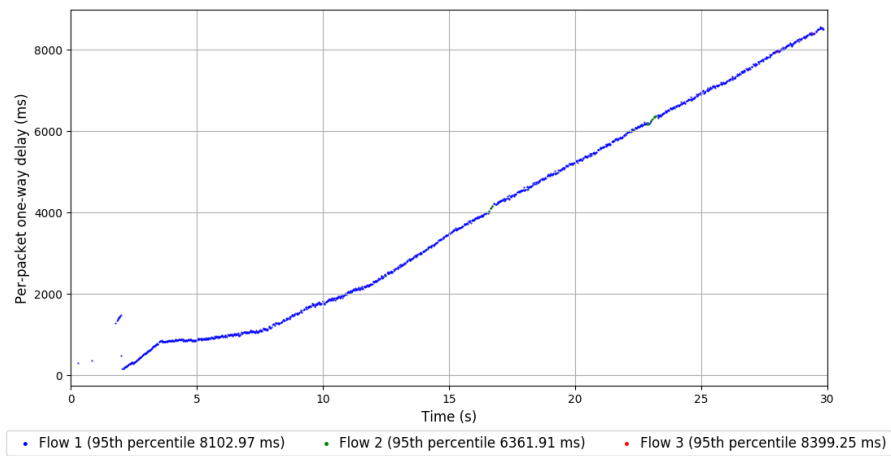
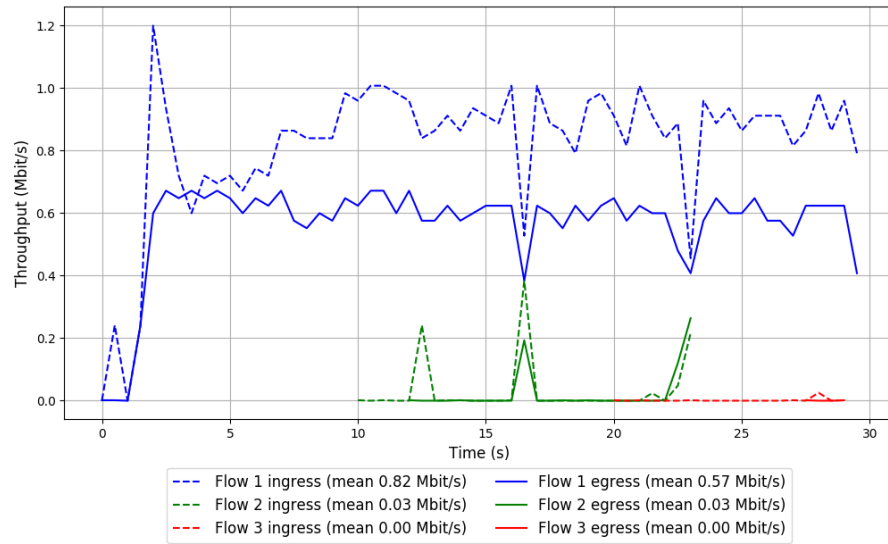


Run 2: Statistics of TCP Cubic

Start at: 2018-04-16 23:38:21  
End at: 2018-04-16 23:38:51  
Local clock offset: -5.389 ms  
Remote clock offset: 12.276 ms

# Below is generated by plot.py at 2018-04-17 01:12:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.58 Mbit/s  
95th percentile per-packet one-way delay: 8102.969 ms  
Loss rate: 31.03%  
-- Flow 1:  
Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 8102.969 ms  
Loss rate: 30.89%  
-- Flow 2:  
Average throughput: 0.03 Mbit/s  
95th percentile per-packet one-way delay: 6361.915 ms  
Loss rate: 36.49%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 8399.245 ms  
Loss rate: 90.68%

## Run 2: Report of TCP Cubic — Data Link

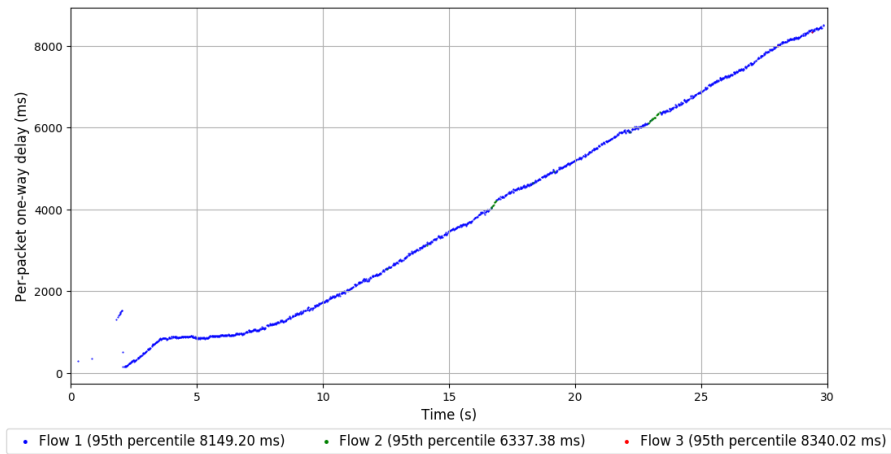
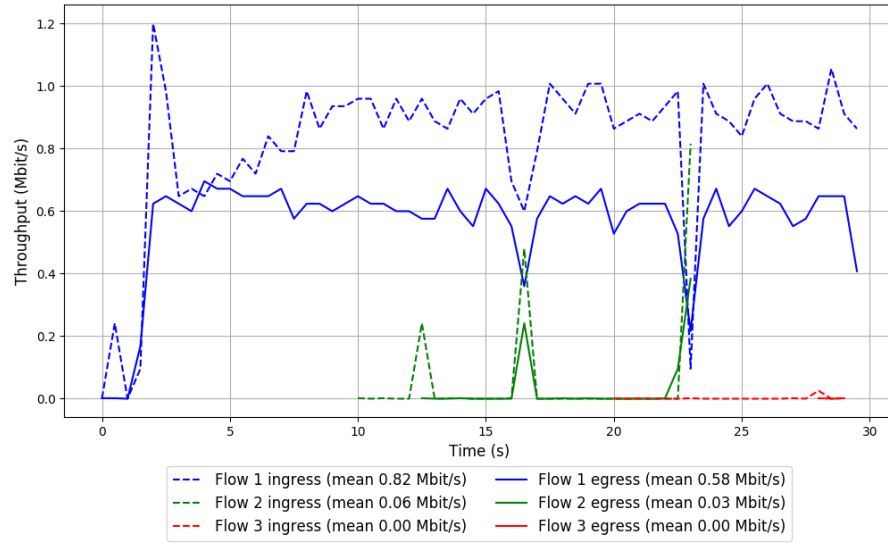


Run 3: Statistics of TCP Cubic

Start at: 2018-04-16 23:59:49  
End at: 2018-04-17 00:00:19  
Local clock offset: -4.631 ms  
Remote clock offset: 10.931 ms

# Below is generated by plot.py at 2018-04-17 01:12:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.59 Mbit/s  
95th percentile per-packet one-way delay: 8149.160 ms  
Loss rate: 31.65%  
-- Flow 1:  
Average throughput: 0.58 Mbit/s  
95th percentile per-packet one-way delay: 8149.199 ms  
Loss rate: 30.94%  
-- Flow 2:  
Average throughput: 0.03 Mbit/s  
95th percentile per-packet one-way delay: 6337.379 ms  
Loss rate: 52.83%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 8340.023 ms  
Loss rate: 90.68%

### Run 3: Report of TCP Cubic — Data Link



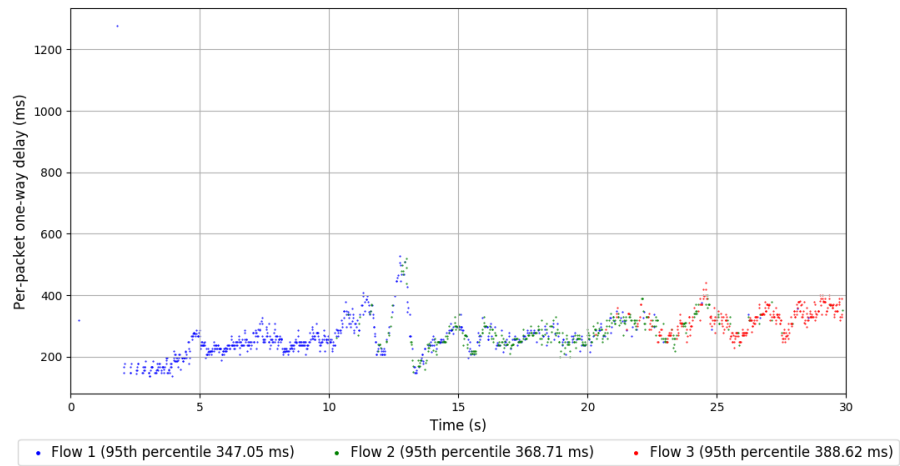
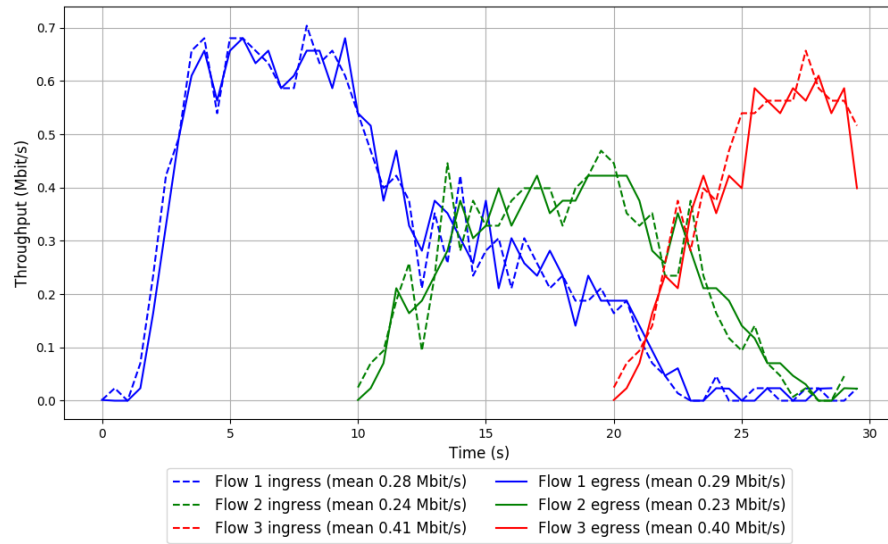


Run 1: Statistics of LEDBAT

Start at: 2018-04-16 23:21:57  
End at: 2018-04-16 23:22:27  
Local clock offset: -5.193 ms  
Remote clock offset: 12.099 ms

# Below is generated by plot.py at 2018-04-17 01:12:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.56 Mbit/s  
95th percentile per-packet one-way delay: 369.187 ms  
Loss rate: 1.60%  
-- Flow 1:  
Average throughput: 0.29 Mbit/s  
95th percentile per-packet one-way delay: 347.054 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 0.23 Mbit/s  
95th percentile per-packet one-way delay: 368.706 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.40 Mbit/s  
95th percentile per-packet one-way delay: 388.621 ms  
Loss rate: 6.34%

## Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-04-16 23:43:23

End at: 2018-04-16 23:43:53

Local clock offset: -5.396 ms

Remote clock offset: 6.304 ms

# Below is generated by plot.py at 2018-04-17 01:12:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 405.082 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 357.096 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 417.457 ms

Loss rate: 0.20%

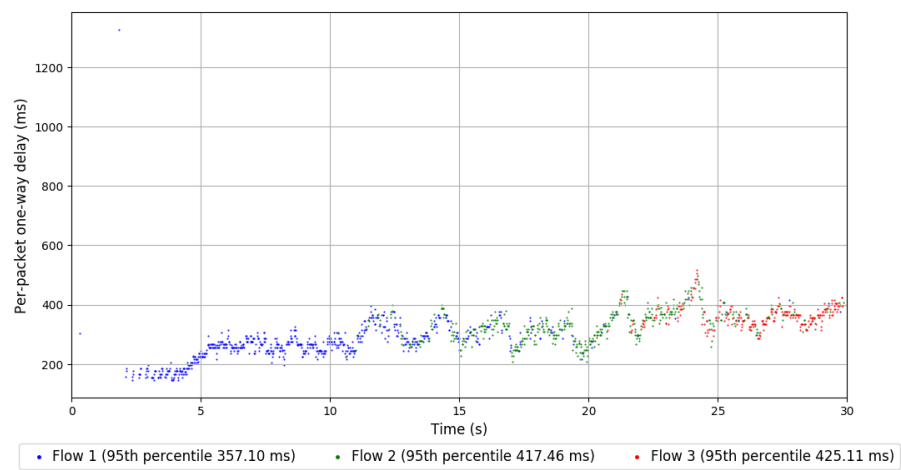
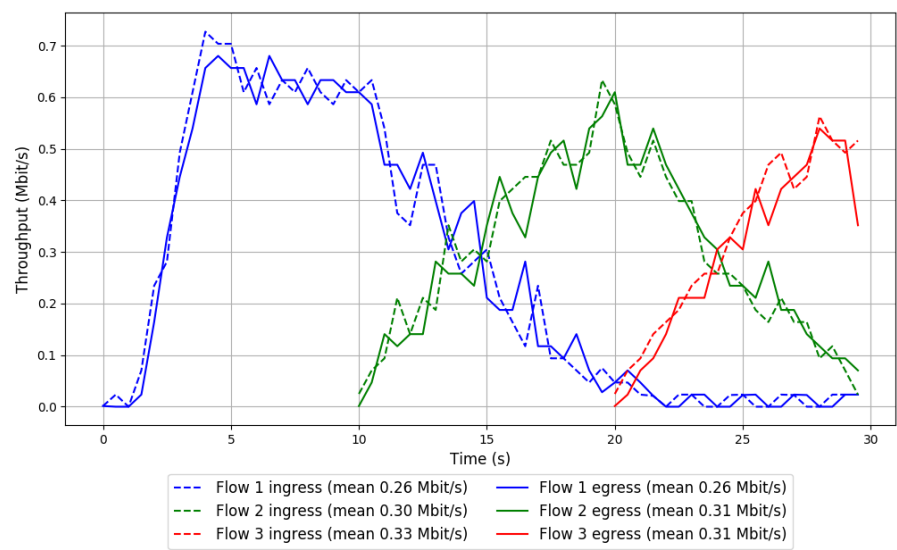
-- Flow 3:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 425.114 ms

Loss rate: 8.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-17 00:04:51

End at: 2018-04-17 00:05:21

Local clock offset: -5.401 ms

Remote clock offset: 5.086 ms

# Below is generated by plot.py at 2018-04-17 01:12:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 457.060 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 357.141 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 477.337 ms

Loss rate: 2.29%

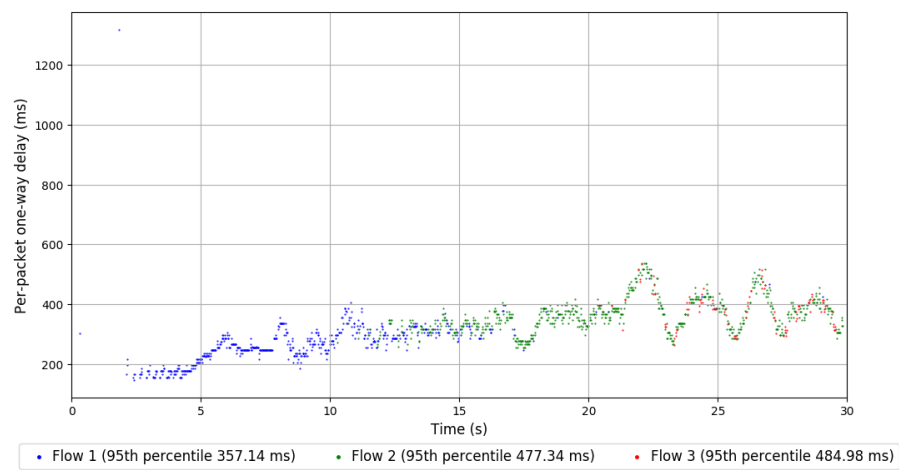
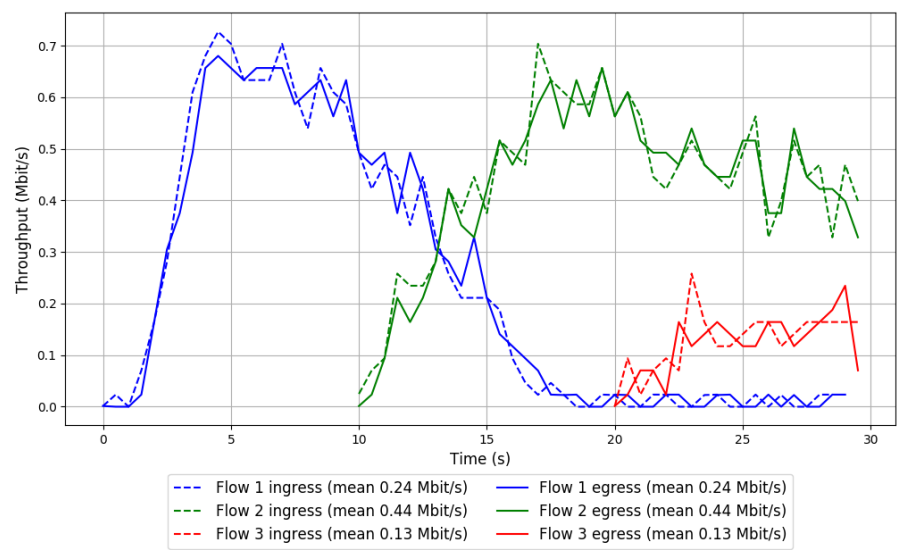
-- Flow 3:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 484.982 ms

Loss rate: 6.42%

Run 3: Report of LEDBAT — Data Link

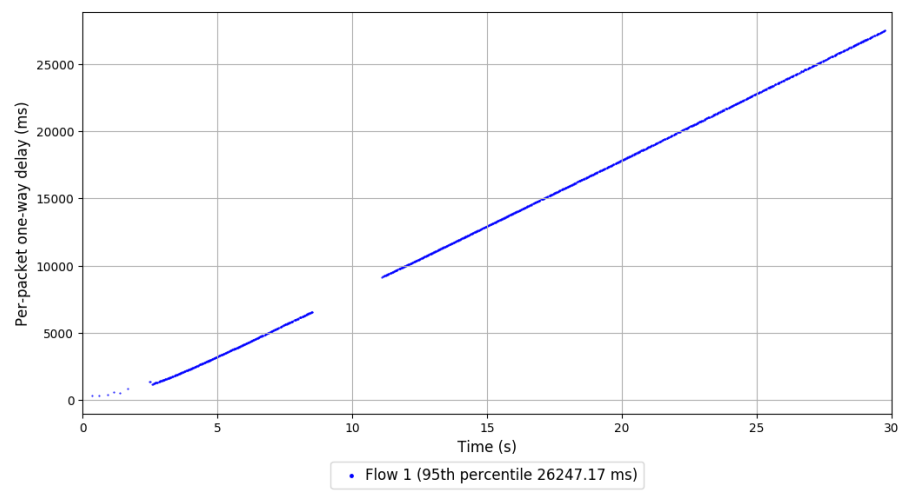
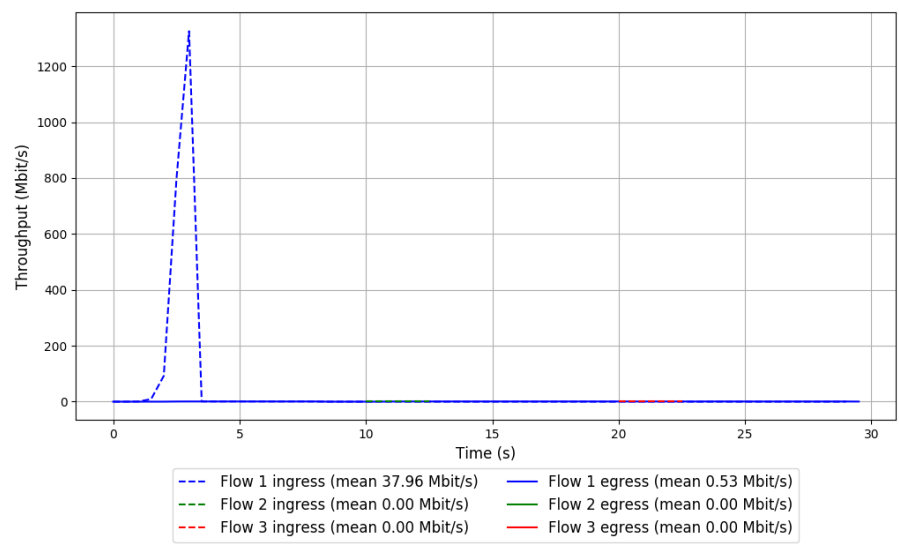


Run 1: Statistics of PCC-Allegro

Start at: 2018-04-16 23:06:44  
End at: 2018-04-16 23:07:14  
Local clock offset: -4.891 ms  
Remote clock offset: 12.746 ms

# Below is generated by plot.py at 2018-04-17 01:13:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.53 Mbit/s  
95th percentile per-packet one-way delay: 26247.172 ms  
Loss rate: 98.60%  
-- Flow 1:  
Average throughput: 0.53 Mbit/s  
95th percentile per-packet one-way delay: 26247.172 ms  
Loss rate: 98.60%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
-- Flow 3:  
Average throughput: 0.00 Mbit/s

Run 1: Report of PCC-Allegro — Data Link





Run 2: Statistics of PCC-Allegro

Start at: 2018-04-16 23:28:15

End at: 2018-04-16 23:28:45

Local clock offset: -4.525 ms

Remote clock offset: 7.318 ms

# Below is generated by plot.py at 2018-04-17 01:13:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 26107.060 ms

Loss rate: 98.18%

-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 26107.060 ms

Loss rate: 98.18%

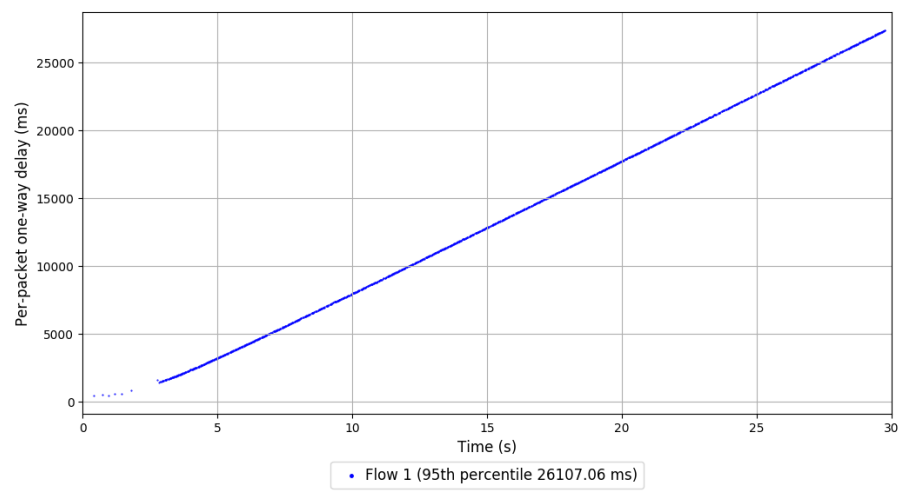
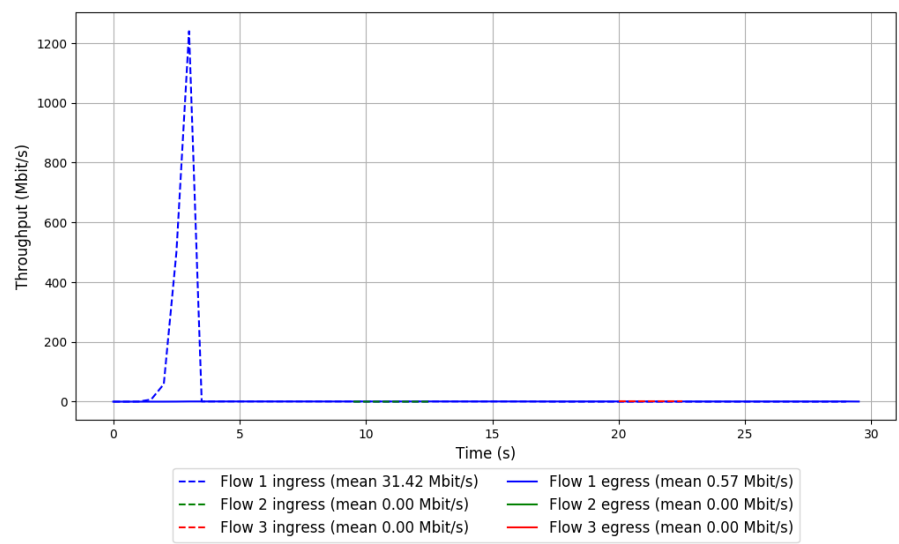
-- Flow 2:

Average throughput: 0.00 Mbit/s

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-16 23:49:42

End at: 2018-04-16 23:50:12

Local clock offset: -4.618 ms

Remote clock offset: 11.34 ms

# Below is generated by plot.py at 2018-04-17 01:13:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 26008.200 ms

Loss rate: 98.50%

-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 26008.200 ms

Loss rate: 98.50%

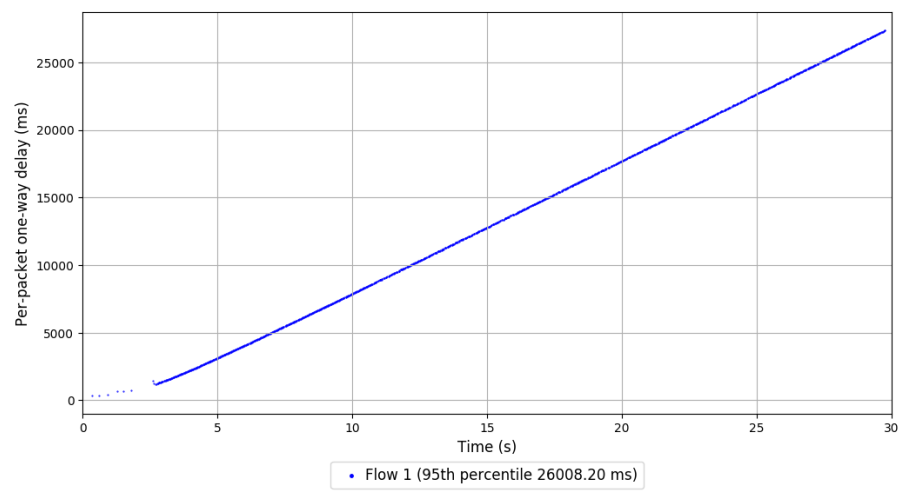
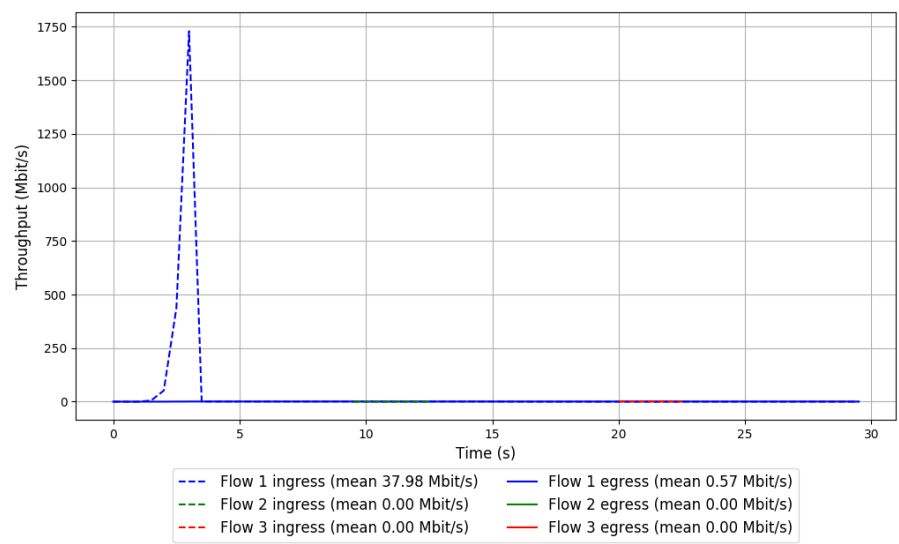
-- Flow 2:

Average throughput: 0.00 Mbit/s

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 3: Report of PCC-Allegro — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-04-16 23:14:23

End at: 2018-04-16 23:14:53

Local clock offset: -5.022 ms

Remote clock offset: 6.381 ms

# Below is generated by plot.py at 2018-04-17 01:13:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 7503.306 ms

Loss rate: 26.73%

-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 7440.843 ms

Loss rate: 26.29%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 7722.153 ms

Loss rate: 33.23%

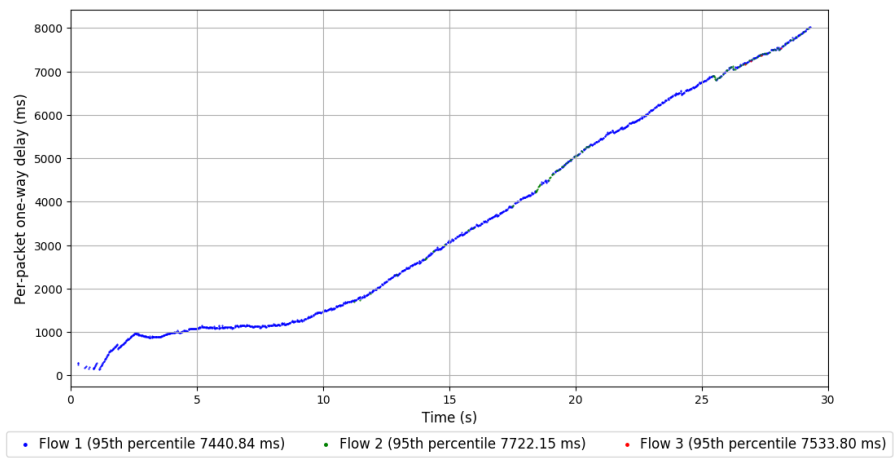
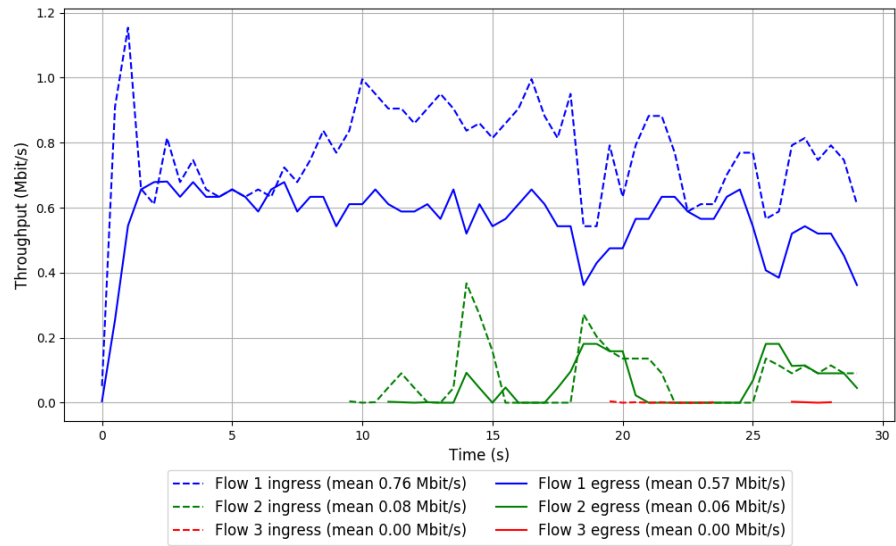
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 7533.801 ms

Loss rate: 33.33%

### Run 1: Report of QUIC Cubic — Data Link

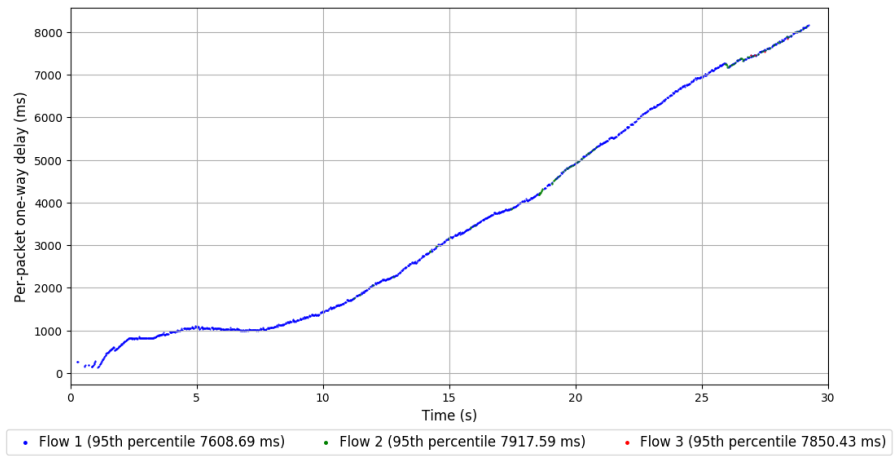
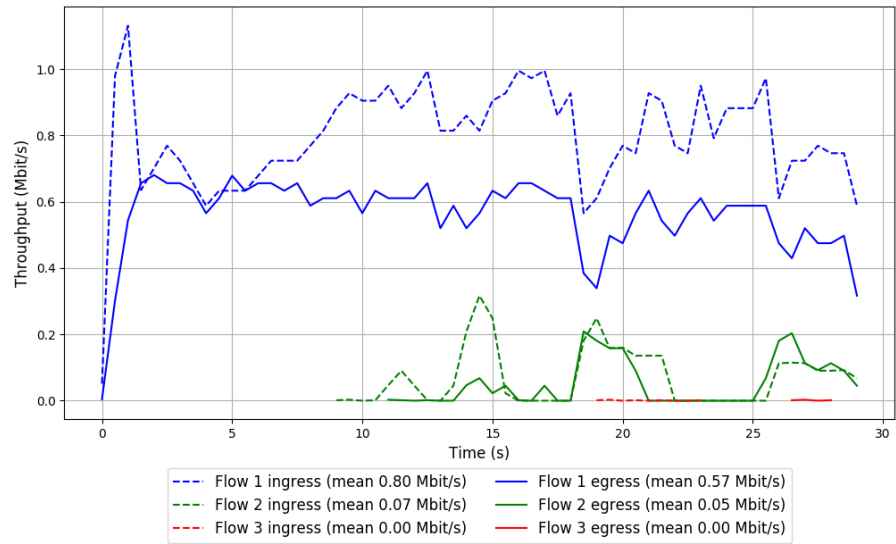


Run 2: Statistics of QUIC Cubic

Start at: 2018-04-16 23:35:50  
End at: 2018-04-16 23:36:20  
Local clock offset: -5.338 ms  
Remote clock offset: 11.392 ms

# Below is generated by plot.py at 2018-04-17 01:13:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.61 Mbit/s  
95th percentile per-packet one-way delay: 7687.911 ms  
Loss rate: 29.40%  
-- Flow 1:  
Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 7608.689 ms  
Loss rate: 29.22%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 7917.588 ms  
Loss rate: 32.43%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 7850.433 ms  
Loss rate: 33.33%

## Run 2: Report of QUIC Cubic — Data Link



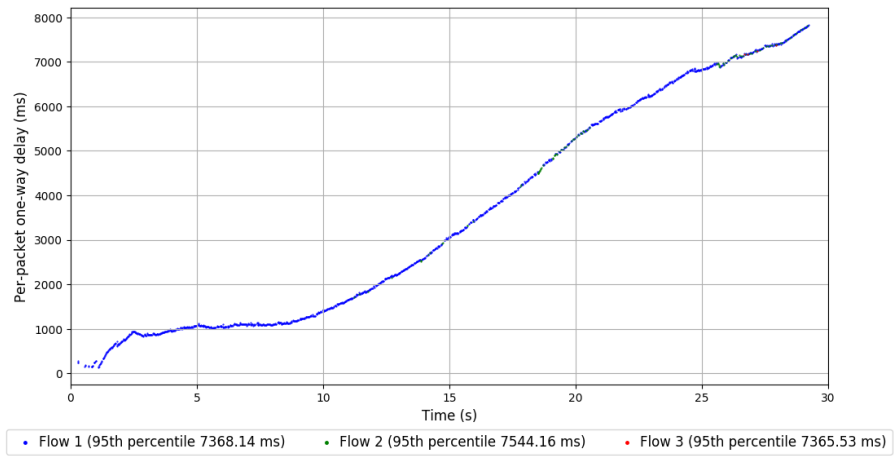
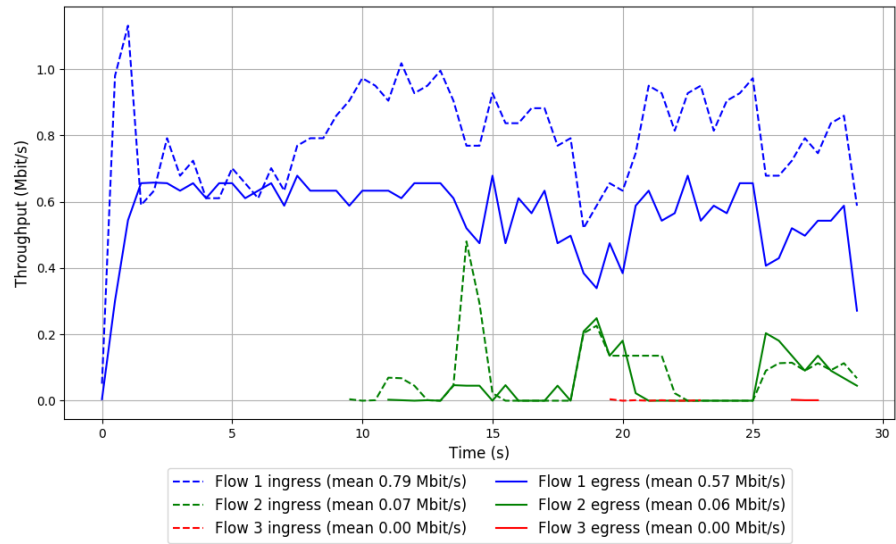


Run 3: Statistics of QUIC Cubic

Start at: 2018-04-16 23:57:17  
End at: 2018-04-16 23:57:48  
Local clock offset: -5.364 ms  
Remote clock offset: 10.197 ms

# Below is generated by plot.py at 2018-04-17 01:13:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.61 Mbit/s  
95th percentile per-packet one-way delay: 7385.208 ms  
Loss rate: 29.11%  
-- Flow 1:  
Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 7368.143 ms  
Loss rate: 28.87%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 7544.156 ms  
Loss rate: 32.99%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 7365.533 ms  
Loss rate: 33.33%

### Run 3: Report of QUIC Cubic — Data Link

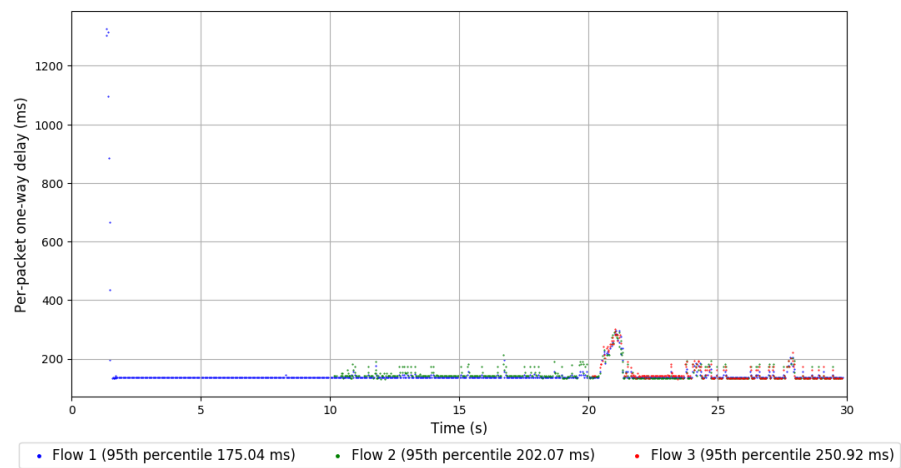
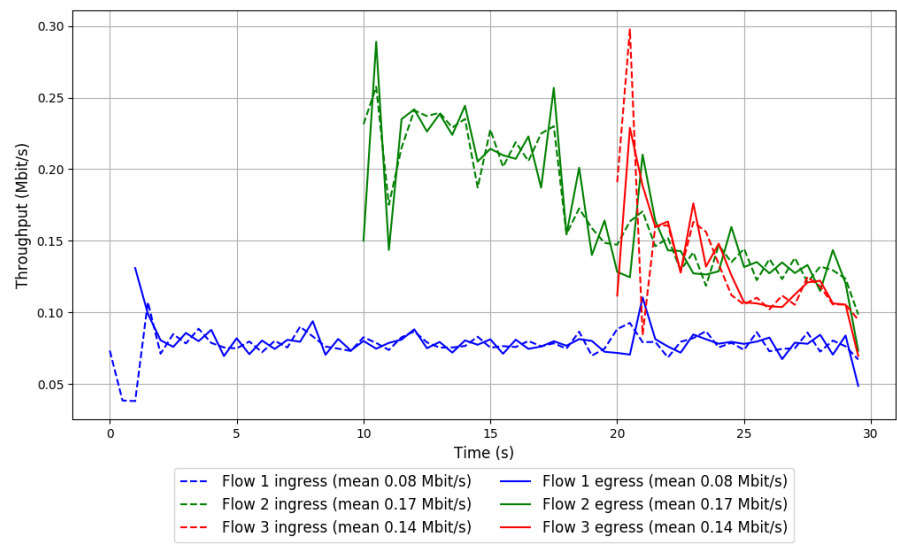


```
Run 1: Statistics of SCReAM

Start at: 2018-04-16 23:23:12
End at: 2018-04-16 23:23:42
Local clock offset: -5.195 ms
Remote clock offset: 7.255 ms

# Below is generated by plot.py at 2018-04-17 01:13:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 202.637 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 175.045 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 202.071 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 250.922 ms
Loss rate: 1.91%
```

Run 1: Report of SReAM — Data Link

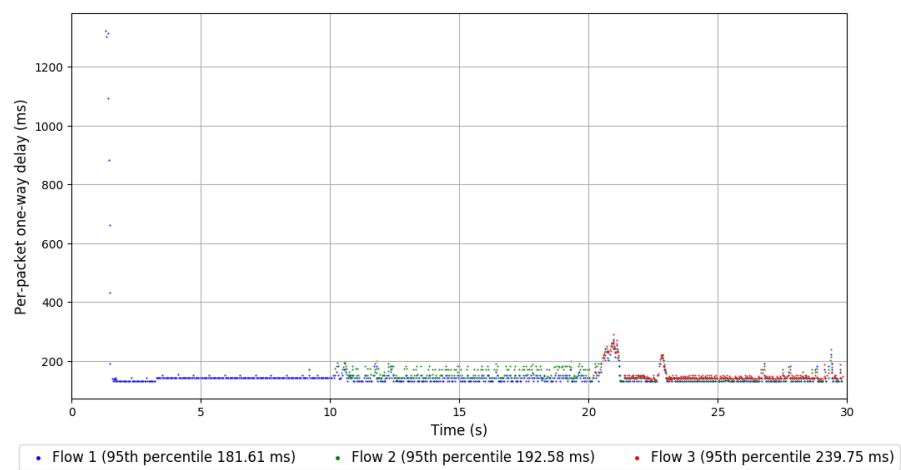
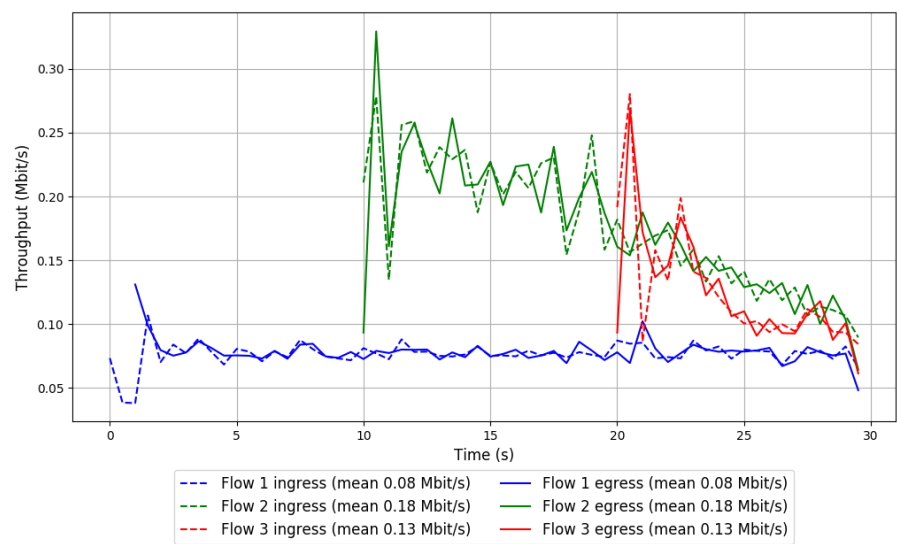


Run 2: Statistics of SReAM

Start at: 2018-04-16 23:44:39  
End at: 2018-04-16 23:45:09  
Local clock offset: -4.665 ms  
Remote clock offset: 7.03 ms

# Below is generated by plot.py at 2018-04-17 01:13:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.25 Mbit/s  
95th percentile per-packet one-way delay: 202.232 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 0.08 Mbit/s  
95th percentile per-packet one-way delay: 181.614 ms  
Loss rate: 0.92%  
-- Flow 2:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 192.583 ms  
Loss rate: 0.79%  
-- Flow 3:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 239.746 ms  
Loss rate: 1.80%

Run 2: Report of SReAM — Data Link

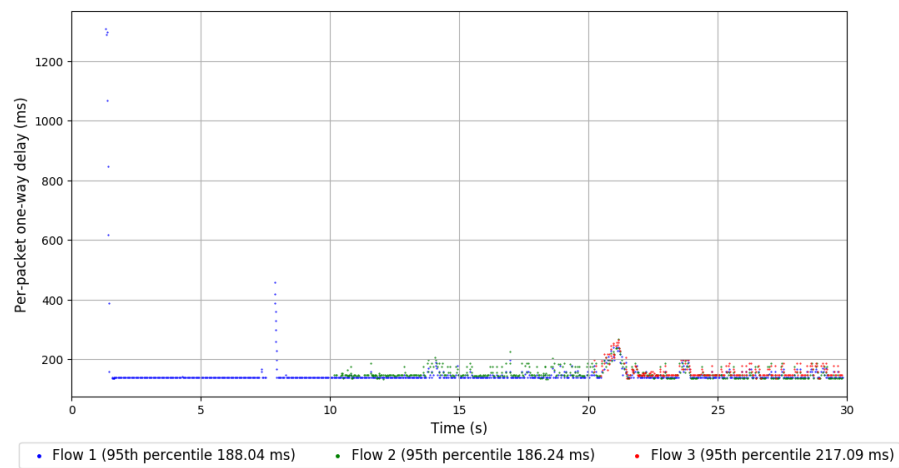
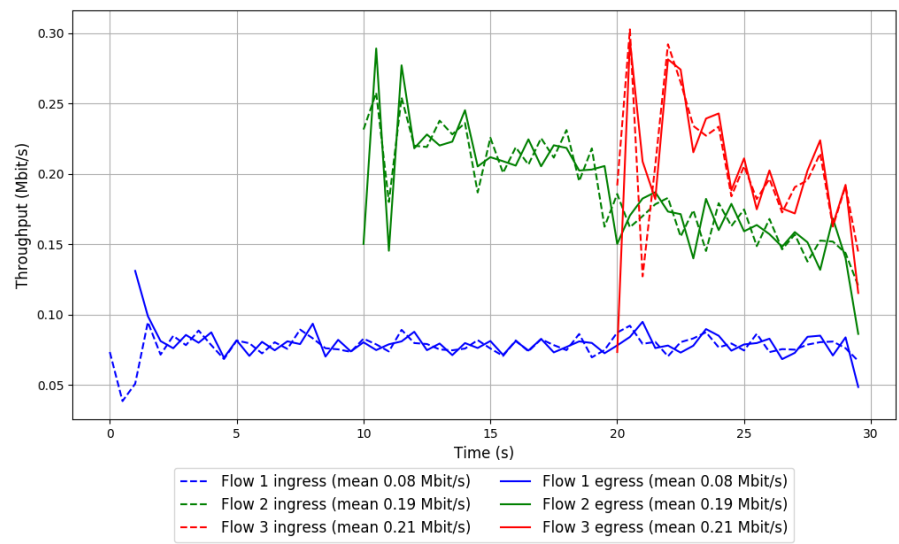


Run 3: Statistics of SCReAM

Start at: 2018-04-17 00:06:07  
End at: 2018-04-17 00:06:37  
Local clock offset: -4.628 ms  
Remote clock offset: 5.911 ms

# Below is generated by plot.py at 2018-04-17 01:13:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.28 Mbit/s  
95th percentile per-packet one-way delay: 196.924 ms  
Loss rate: 1.21%  
-- Flow 1:  
Average throughput: 0.08 Mbit/s  
95th percentile per-packet one-way delay: 188.036 ms  
Loss rate: 0.79%  
-- Flow 2:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 186.239 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 217.091 ms  
Loss rate: 2.07%

Run 3: Report of SReAM — Data Link



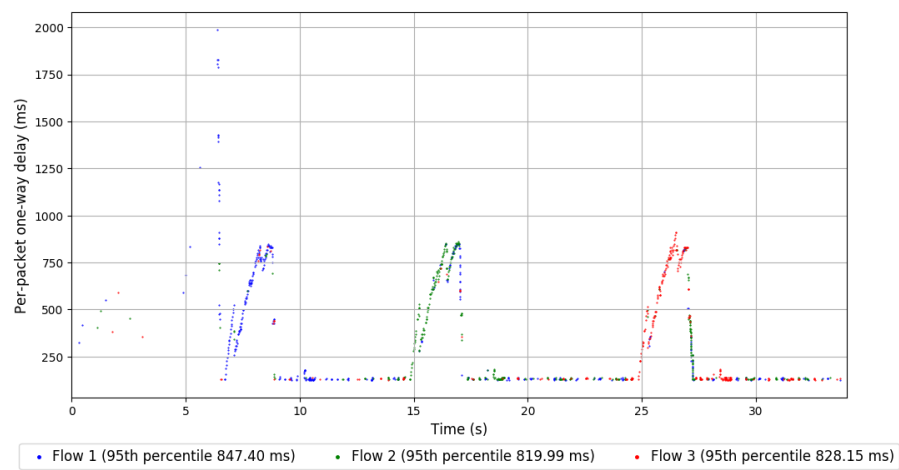
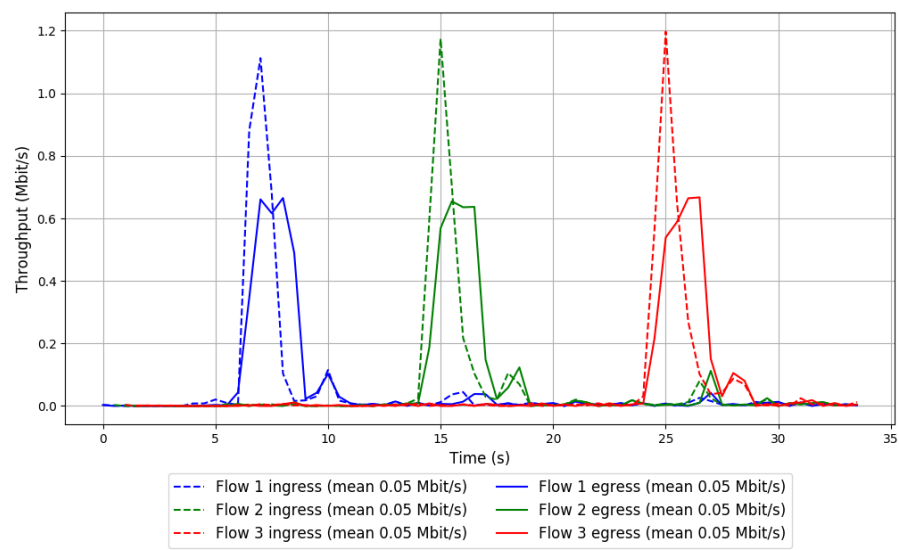


Run 1: Statistics of WebRTC media

Start at: 2018-04-16 23:19:26  
End at: 2018-04-16 23:19:56  
Local clock offset: -5.19 ms  
Remote clock offset: 11.252 ms

# Below is generated by plot.py at 2018-04-17 01:13:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 837.942 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 847.405 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 819.994 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 828.148 ms  
Loss rate: 0.30%

Run 1: Report of WebRTC media — Data Link

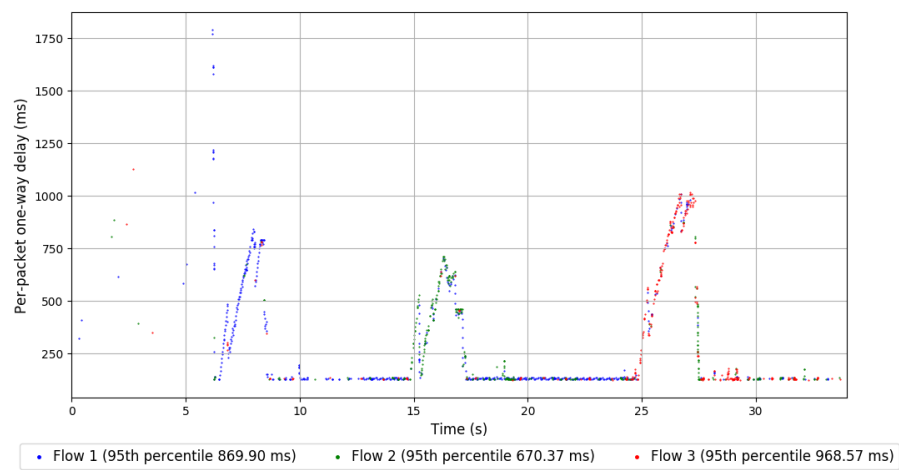
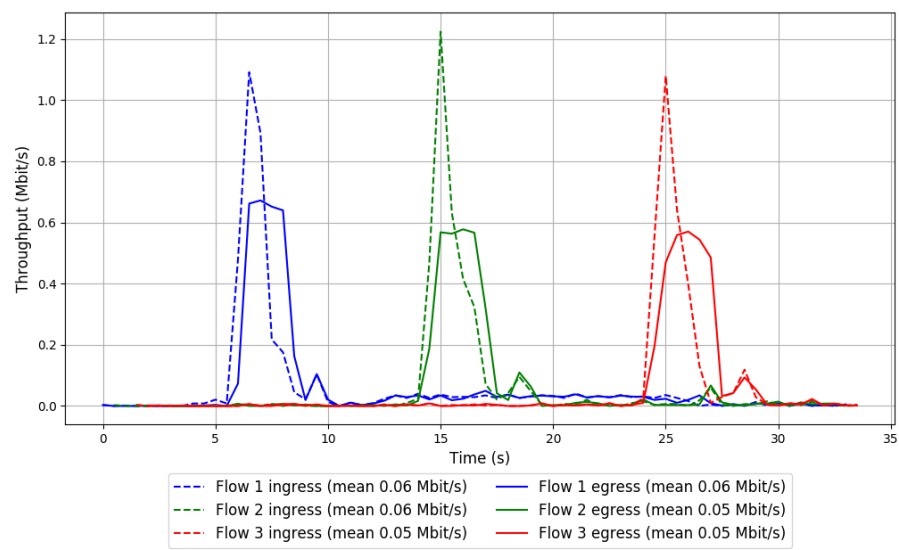


Run 2: Statistics of WebRTC media

Start at: 2018-04-16 23:40:53  
End at: 2018-04-16 23:41:23  
Local clock offset: -5.429 ms  
Remote clock offset: 12.237 ms

# Below is generated by plot.py at 2018-04-17 01:13:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 918.488 ms  
Loss rate: 3.84%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 869.897 ms  
Loss rate: 1.83%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 670.369 ms  
Loss rate: 9.38%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 968.566 ms  
Loss rate: 0.08%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-17 00:02:20

End at: 2018-04-17 00:02:50

Local clock offset: -5.401 ms

Remote clock offset: 9.987 ms

# Below is generated by plot.py at 2018-04-17 01:13:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 927.163 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 966.037 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 886.779 ms

Loss rate: 0.40%

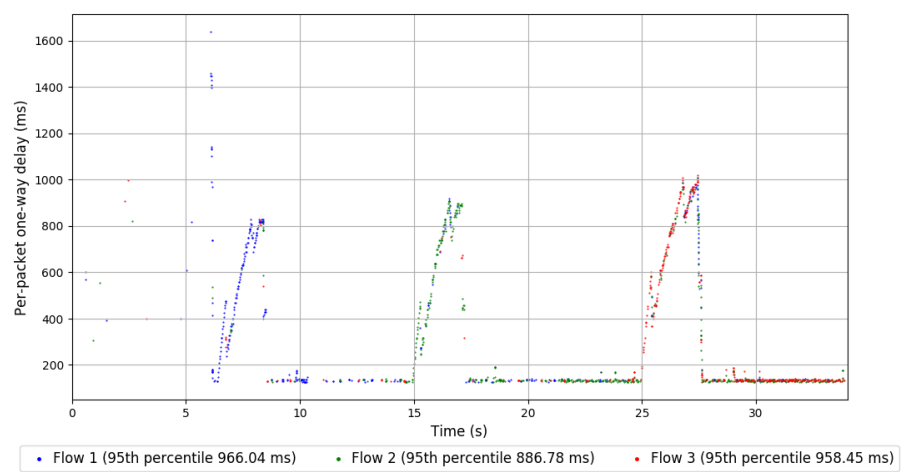
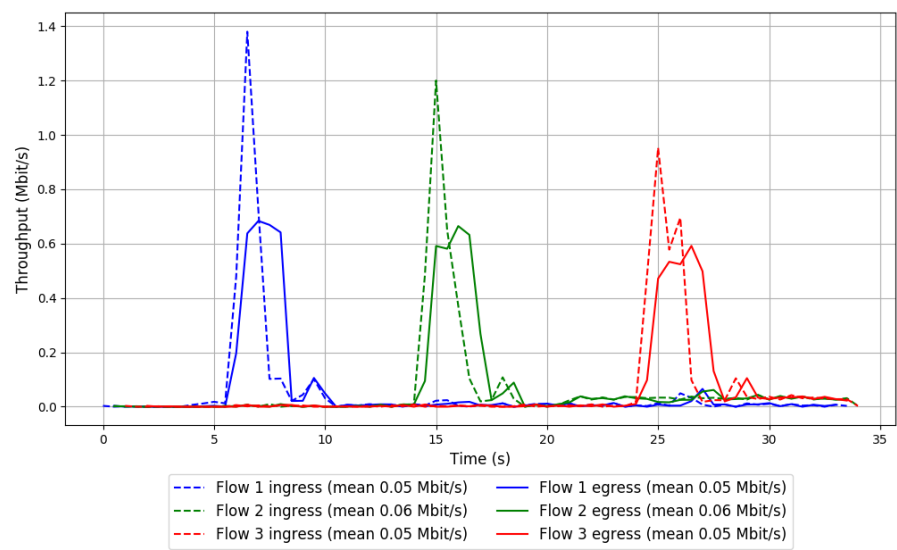
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 958.447 ms

Loss rate: 0.51%

Run 3: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-16 23:08:02

End at: 2018-04-16 23:08:32

Local clock offset: -4.879 ms

Remote clock offset: 12.73 ms

# Below is generated by plot.py at 2018-04-17 01:13:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 258.333 ms

Loss rate: 2.67%

-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 491.619 ms

Loss rate: 1.69%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 216.572 ms

Loss rate: 2.42%

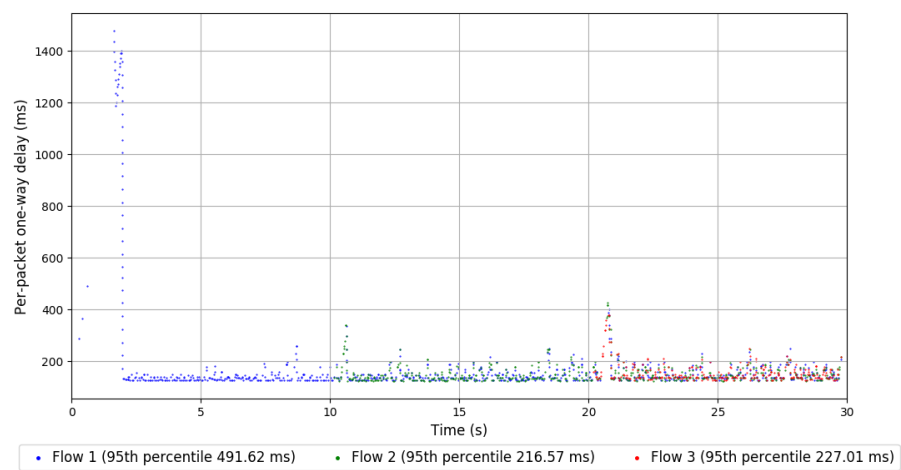
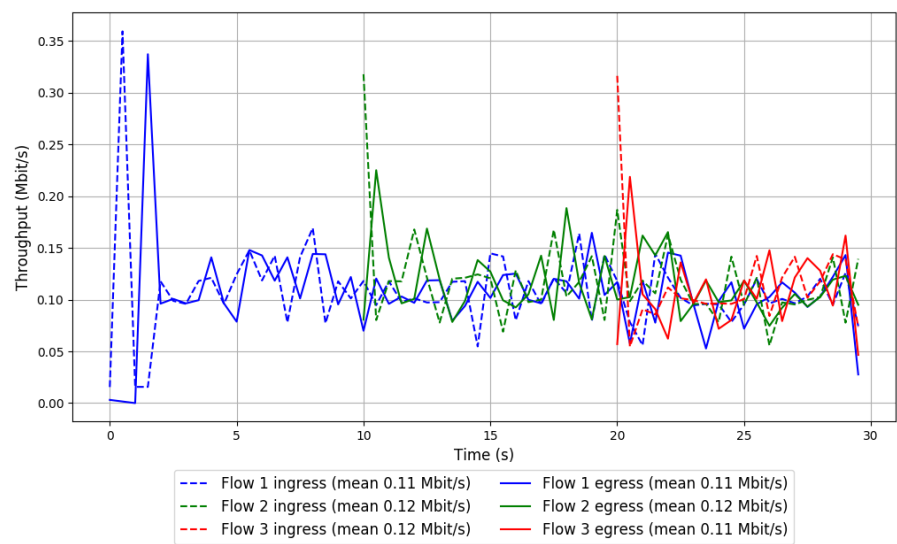
-- Flow 3:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 227.012 ms

Loss rate: 5.93%

Run 1: Report of Sprout — Data Link



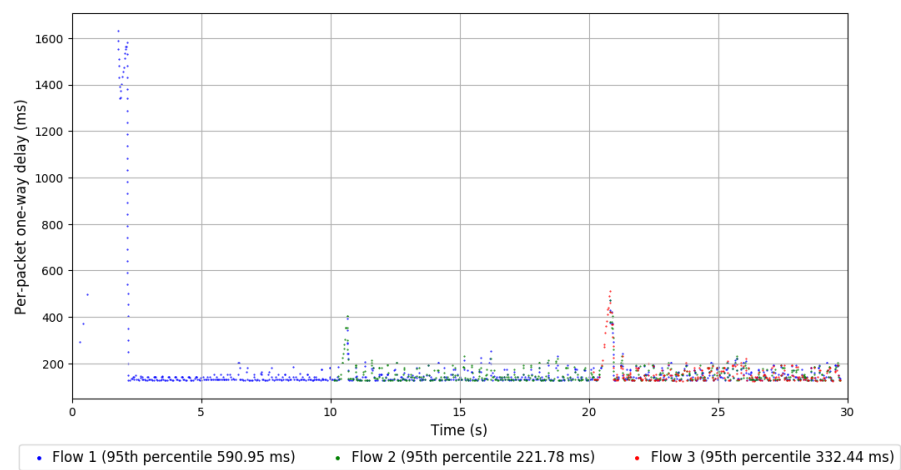
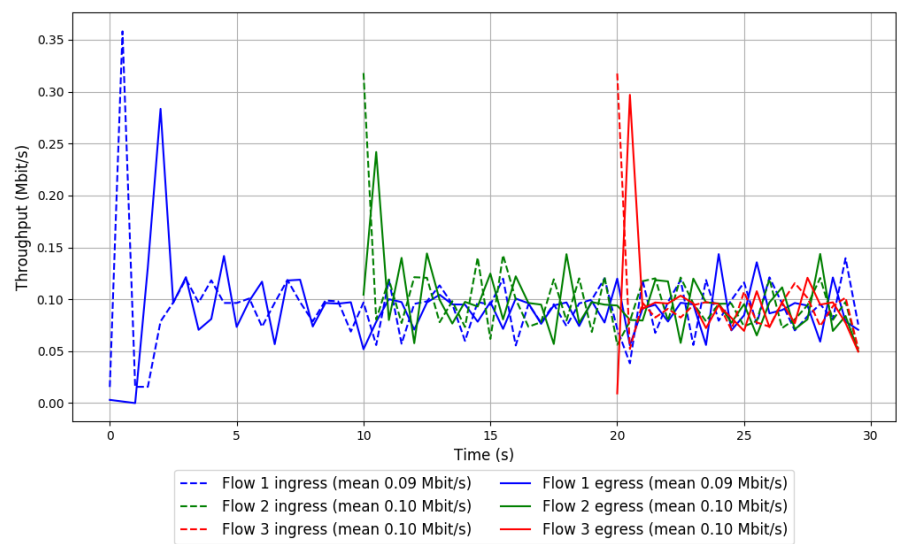


Run 2: Statistics of Sprout

Start at: 2018-04-16 23:29:32  
End at: 2018-04-16 23:30:02  
Local clock offset: -5.305 ms  
Remote clock offset: 12.113 ms

# Below is generated by plot.py at 2018-04-17 01:13:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 351.874 ms  
Loss rate: 2.36%  
-- Flow 1:  
Average throughput: 0.09 Mbit/s  
95th percentile per-packet one-way delay: 590.945 ms  
Loss rate: 2.34%  
-- Flow 2:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 221.776 ms  
Loss rate: 1.77%  
-- Flow 3:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 332.444 ms  
Loss rate: 3.63%

Run 2: Report of Sprout — Data Link

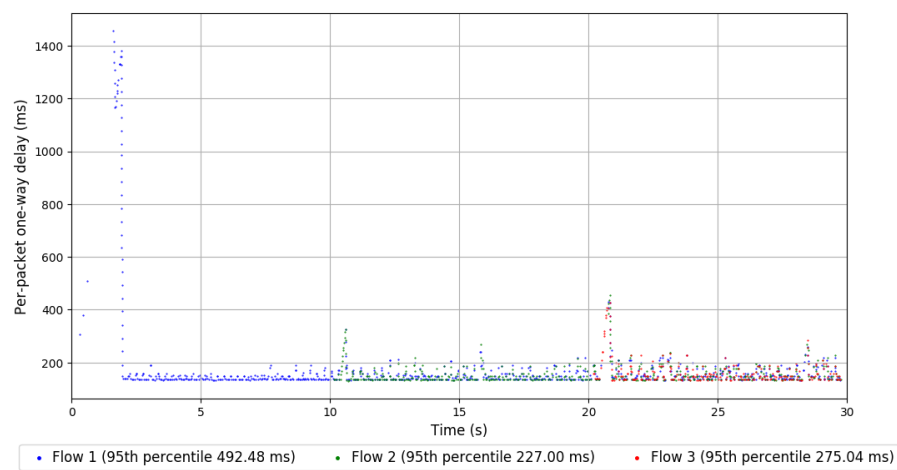
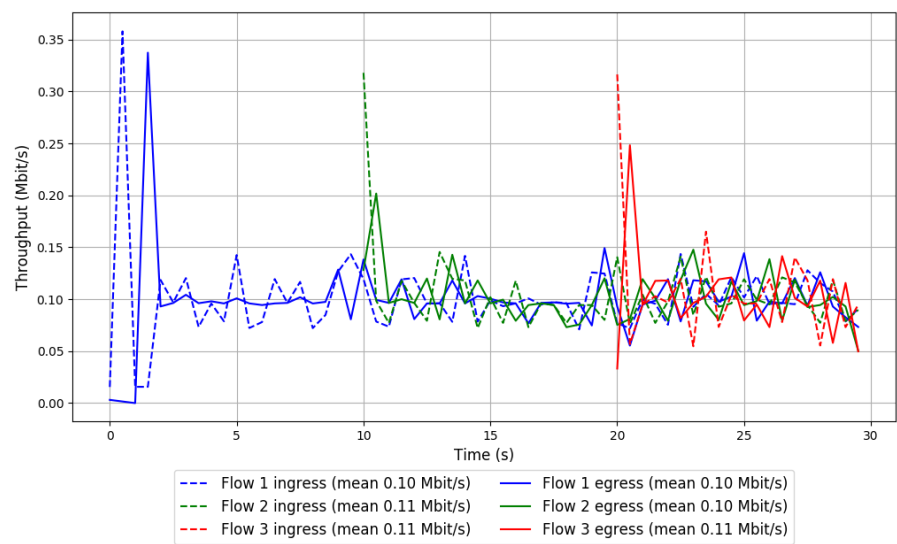


### Run 3: Statistics of Sprout

Start at: 2018-04-16 23:50:59  
End at: 2018-04-16 23:51:29  
Local clock offset: -5.444 ms  
Remote clock offset: 5.649 ms

```
# Below is generated by plot.py at 2018-04-17 01:13:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 275.463 ms
Loss rate: 2.89%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 492.483 ms
Loss rate: 2.16%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 227.004 ms
Loss rate: 2.66%
-- Flow 3:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 275.044 ms
Loss rate: 5.40%
```

Run 3: Report of Sprout — Data Link

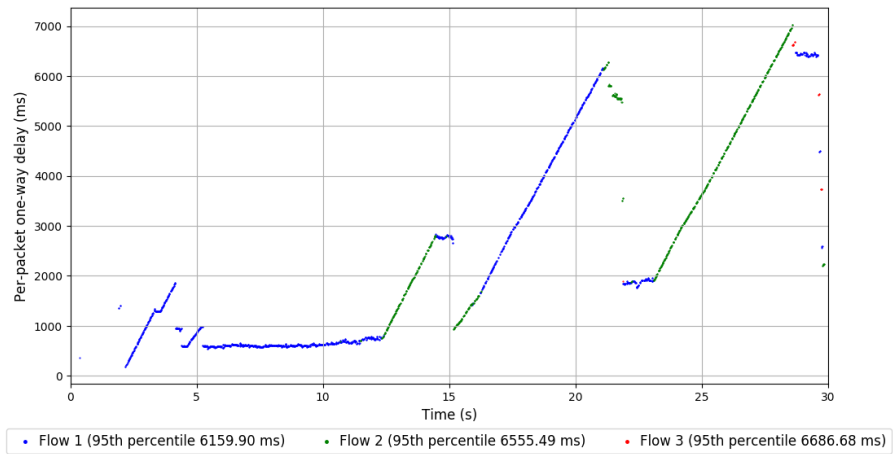
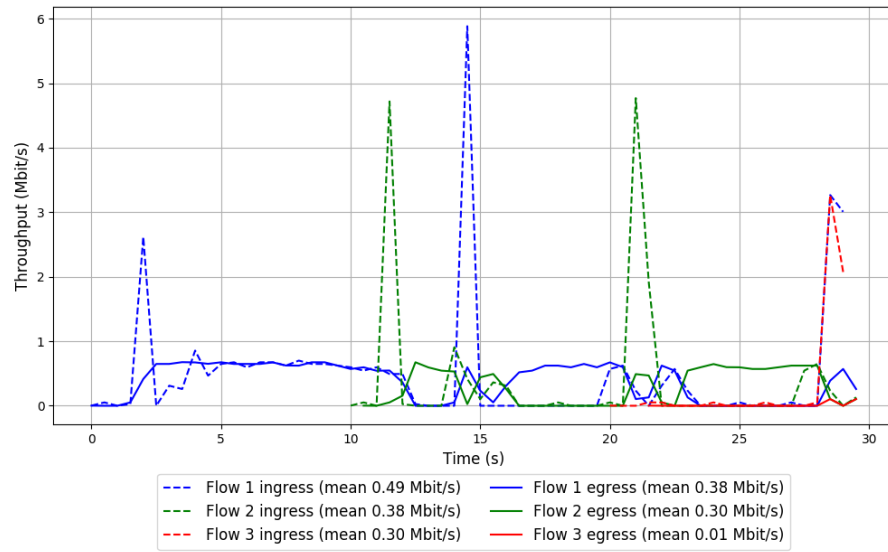


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-16 23:13:07
End at: 2018-04-16 23:13:37
Local clock offset: -4.986 ms
Remote clock offset: 11.19 ms

# Below is generated by plot.py at 2018-04-17 01:13:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 6422.047 ms
Loss rate: 31.14%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 6159.904 ms
Loss rate: 22.16%
-- Flow 2:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 6555.488 ms
Loss rate: 24.08%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 6686.678 ms
Loss rate: 96.26%
```

# Run 1: Report of TaoVA-100x — Data Link



Run 2: Statistics of TaoVA-100x

Start at: 2018-04-16 23:34:34

End at: 2018-04-16 23:35:04

Local clock offset: -5.343 ms

Remote clock offset: 7.431 ms

# Below is generated by plot.py at 2018-04-17 01:13:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 2487.441 ms

Loss rate: 17.76%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 2459.218 ms

Loss rate: 4.36%

-- Flow 2:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 2507.921 ms

Loss rate: 8.12%

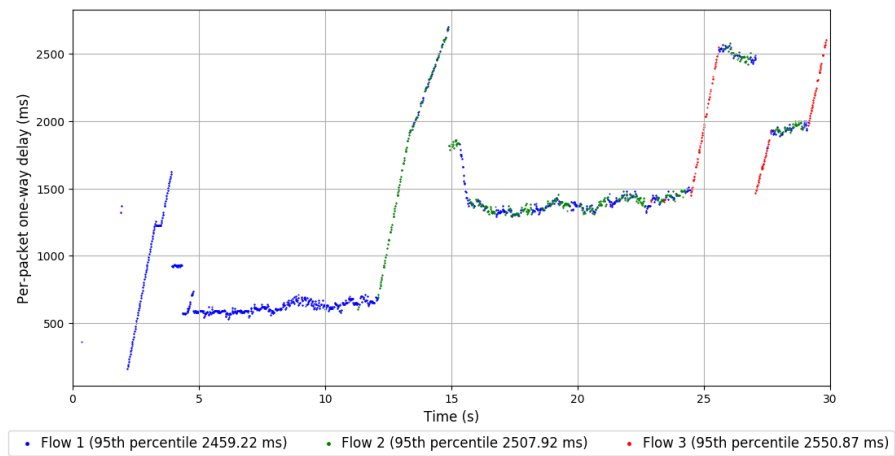
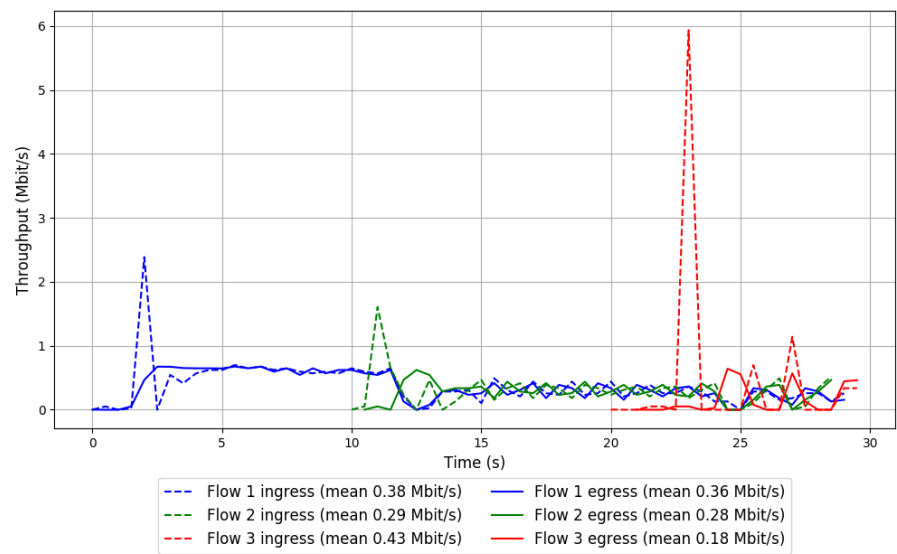
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 2550.869 ms

Loss rate: 64.74%

Run 2: Report of TaoVA-100x — Data Link



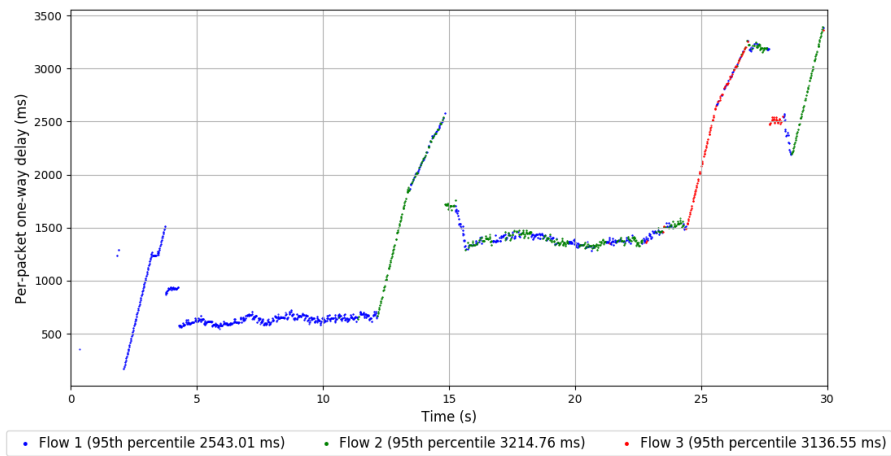
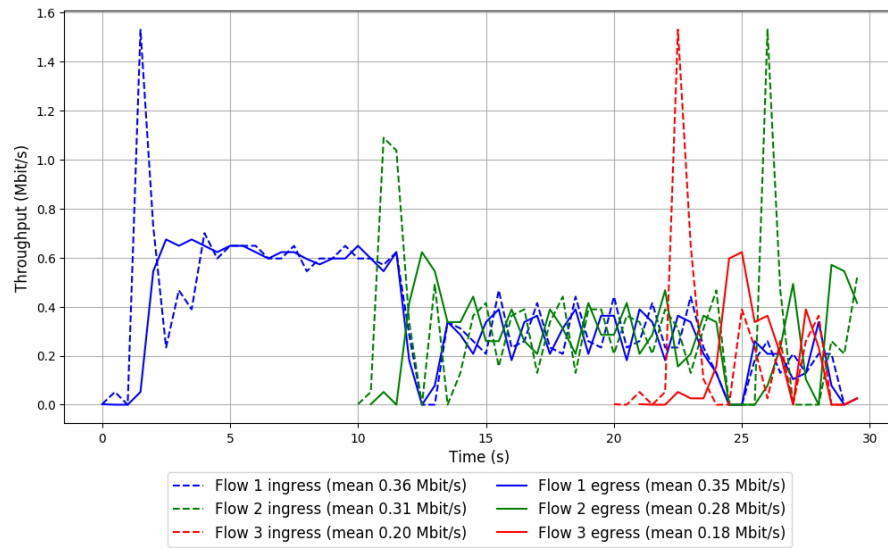


Run 3: Statistics of TaoVA-100x

Start at: 2018-04-16 23:56:01  
End at: 2018-04-16 23:56:31  
Local clock offset: -5.377 ms  
Remote clock offset: 10.291 ms

# Below is generated by plot.py at 2018-04-17 01:13:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.58 Mbit/s  
95th percentile per-packet one-way delay: 3136.554 ms  
Loss rate: 8.81%  
-- Flow 1:  
Average throughput: 0.35 Mbit/s  
95th percentile per-packet one-way delay: 2543.013 ms  
Loss rate: 4.49%  
-- Flow 2:  
Average throughput: 0.28 Mbit/s  
95th percentile per-packet one-way delay: 3214.758 ms  
Loss rate: 11.76%  
-- Flow 3:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 3136.554 ms  
Loss rate: 23.01%

### Run 3: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: 2018-04-16 23:04:14

End at: 2018-04-16 23:04:44

Local clock offset: -4.074 ms

Remote clock offset: 6.291 ms

# Below is generated by plot.py at 2018-04-17 01:13:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 1808.393 ms

Loss rate: 5.81%

-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 1698.103 ms

Loss rate: 3.23%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 1835.909 ms

Loss rate: 6.68%

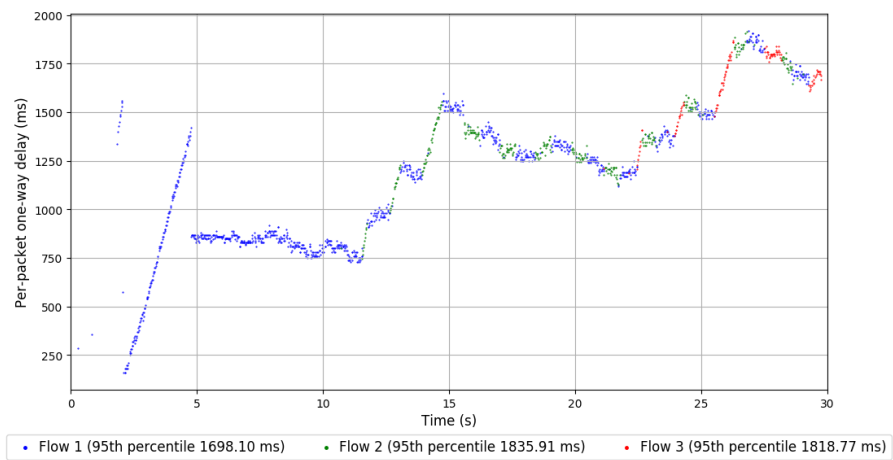
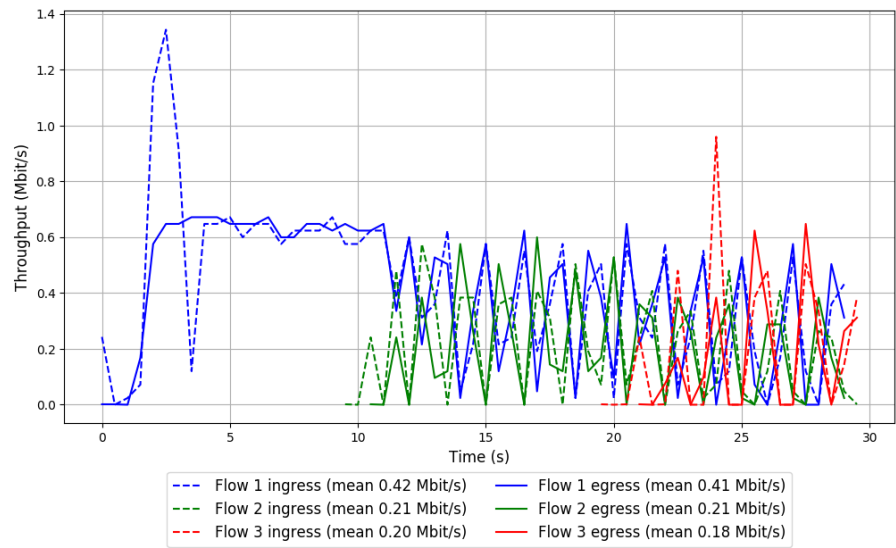
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 1818.774 ms

Loss rate: 20.21%

# Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-16 23:25:44

End at: 2018-04-16 23:26:14

Local clock offset: -6.079 ms

Remote clock offset: 6.404 ms

# Below is generated by plot.py at 2018-04-17 01:13:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 1854.068 ms

Loss rate: 6.02%

-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 1774.002 ms

Loss rate: 3.27%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1883.621 ms

Loss rate: 6.85%

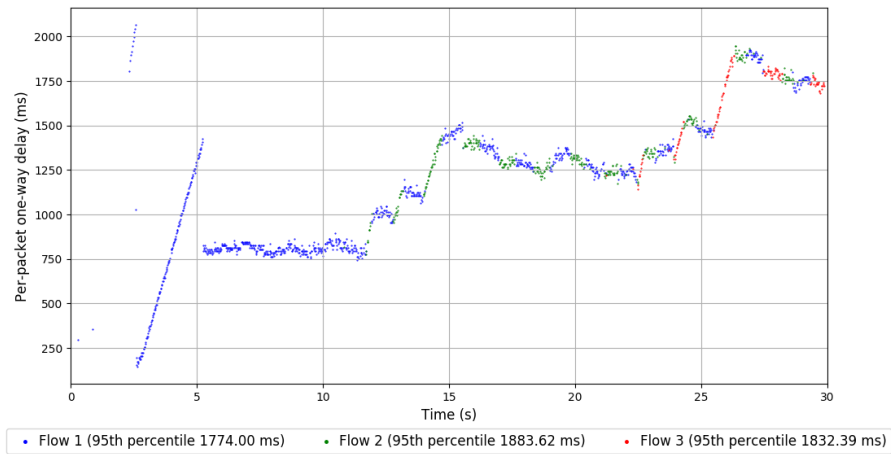
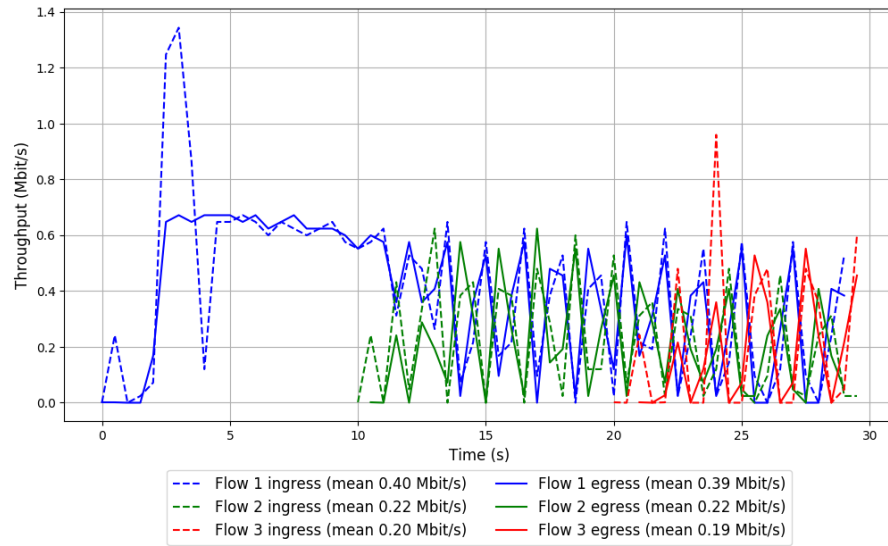
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 1832.393 ms

Loss rate: 20.21%

## Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-16 23:47:10

End at: 2018-04-16 23:47:40

Local clock offset: -4.638 ms

Remote clock offset: 6.697 ms

# Below is generated by plot.py at 2018-04-17 01:13:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 2325.862 ms

Loss rate: 8.02%

-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 1824.867 ms

Loss rate: 3.09%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 1885.048 ms

Loss rate: 6.66%

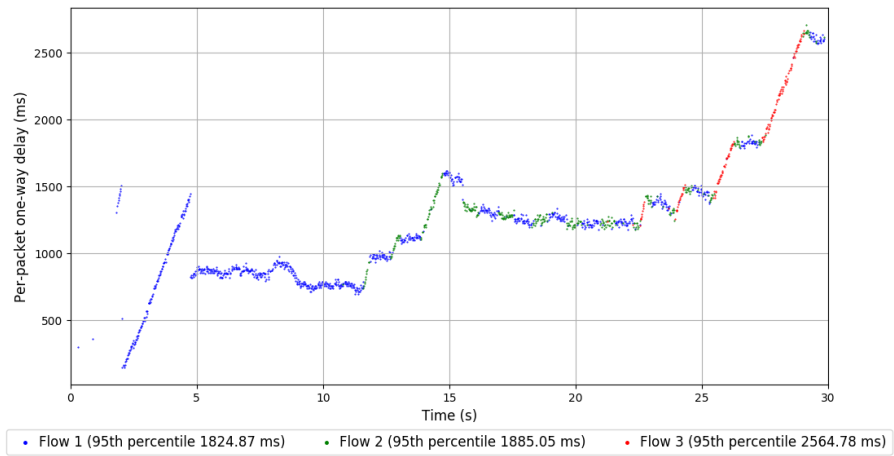
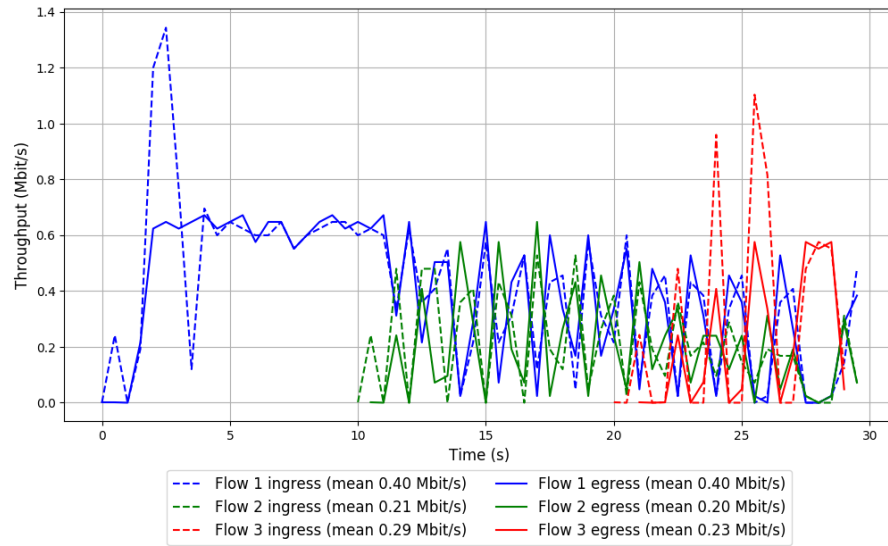
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 2564.777 ms

Loss rate: 32.40%

### Run 3: Report of TCP Vegas — Data Link





Run 1: Statistics of Verus

Start at: 2018-04-16 23:11:51

End at: 2018-04-16 23:12:21

Local clock offset: -4.205 ms

Remote clock offset: 7.102 ms

# Below is generated by plot.py at 2018-04-17 01:13:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 1846.432 ms

Loss rate: 4.16%

-- Flow 1:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 1838.912 ms

Loss rate: 4.12%

-- Flow 2:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 1759.026 ms

Loss rate: 4.76%

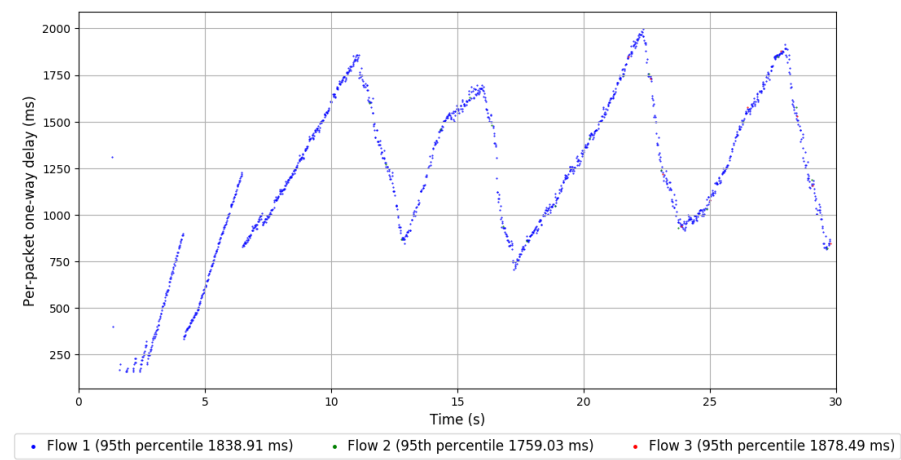
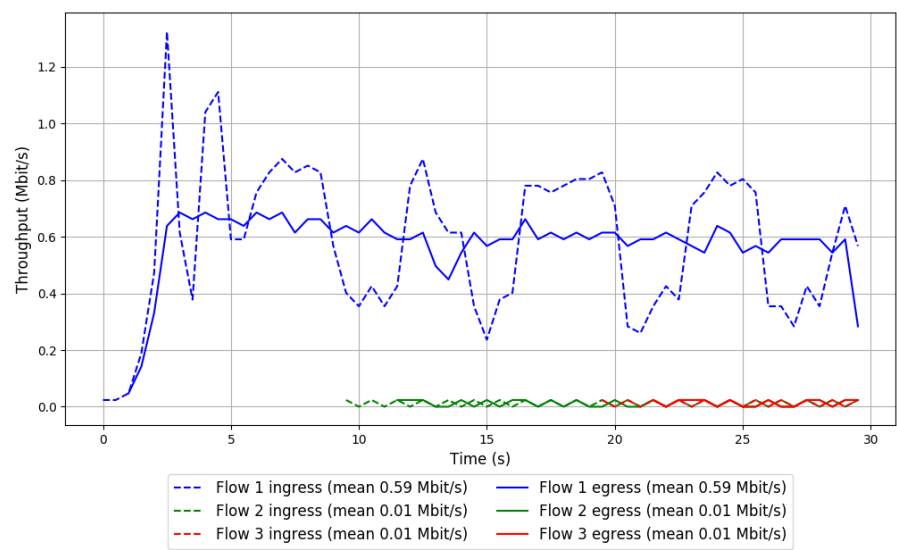
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 1878.495 ms

Loss rate: 9.09%

Run 1: Report of Verus — Data Link

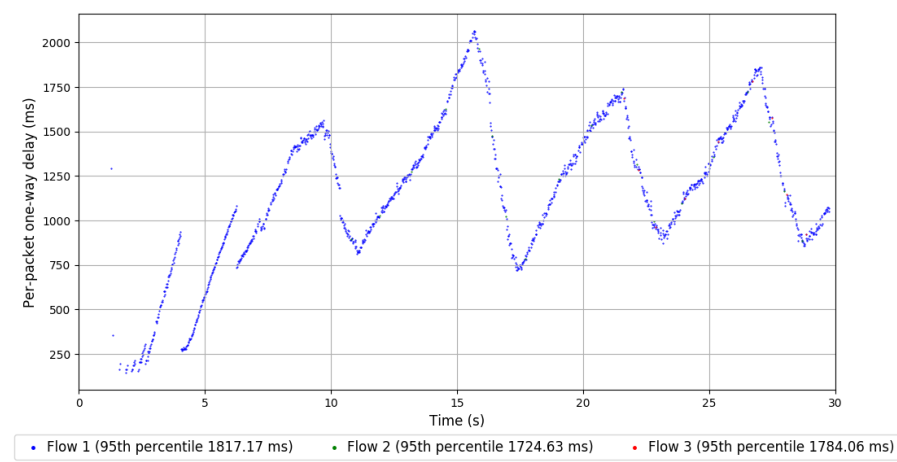
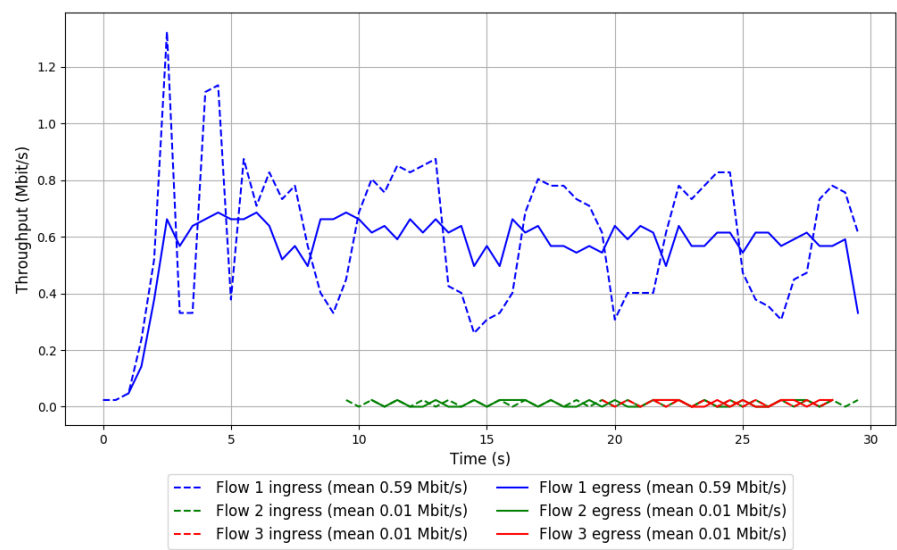


Run 2: Statistics of Verus

Start at: 2018-04-16 23:33:19  
End at: 2018-04-16 23:33:49  
Local clock offset: -5.335 ms  
Remote clock offset: 12.159 ms

# Below is generated by plot.py at 2018-04-17 01:13:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.60 Mbit/s  
95th percentile per-packet one-way delay: 1817.170 ms  
Loss rate: 5.30%  
-- Flow 1:  
Average throughput: 0.59 Mbit/s  
95th percentile per-packet one-way delay: 1817.170 ms  
Loss rate: 5.21%  
-- Flow 2:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 1724.626 ms  
Loss rate: 9.52%  
-- Flow 3:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 1784.062 ms  
Loss rate: 10.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-16 23:54:46

End at: 2018-04-16 23:55:16

Local clock offset: -5.358 ms

Remote clock offset: 5.396 ms

# Below is generated by plot.py at 2018-04-17 01:13:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 1765.216 ms

Loss rate: 3.34%

-- Flow 1:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 1765.216 ms

Loss rate: 3.27%

-- Flow 2:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 1695.798 ms

Loss rate: 5.00%

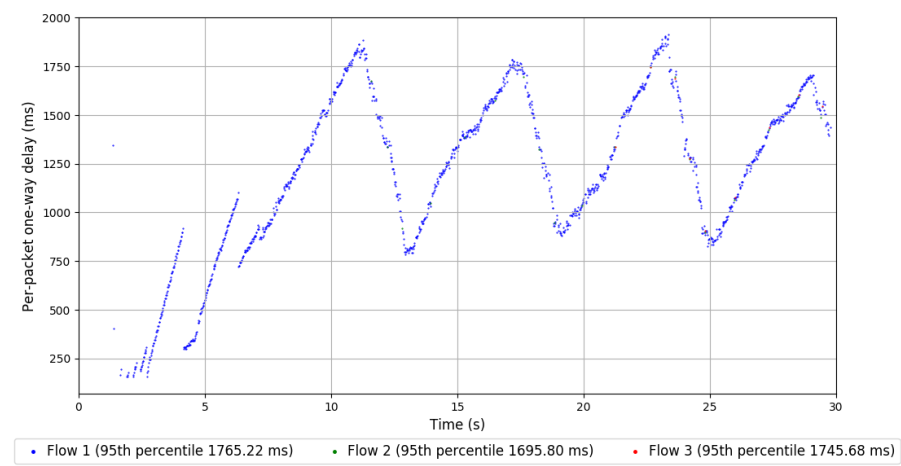
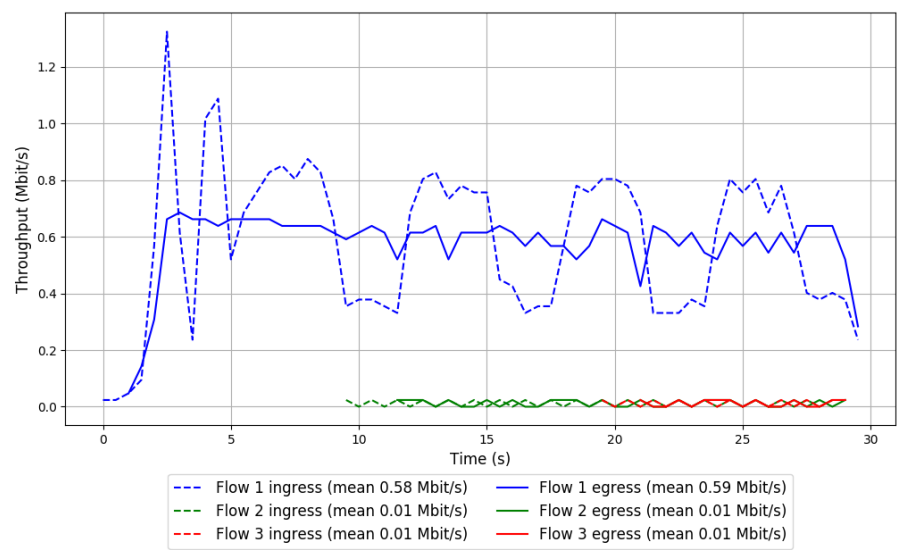
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 1745.685 ms

Loss rate: 10.00%

Run 3: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-16 23:09:17

End at: 2018-04-16 23:09:47

Local clock offset: -4.867 ms

Remote clock offset: 6.305 ms

# Below is generated by plot.py at 2018-04-17 01:13:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 938.074 ms

Loss rate: 8.15%

-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 714.933 ms

Loss rate: 5.16%

-- Flow 2:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 871.343 ms

Loss rate: 9.05%

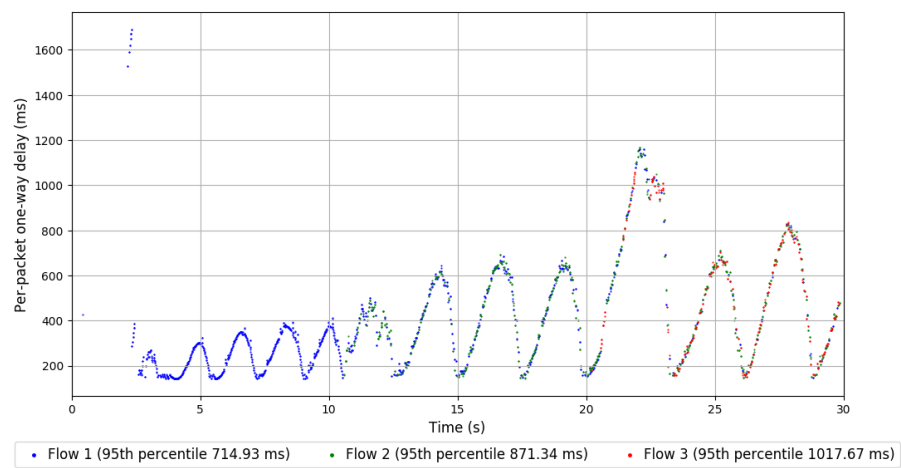
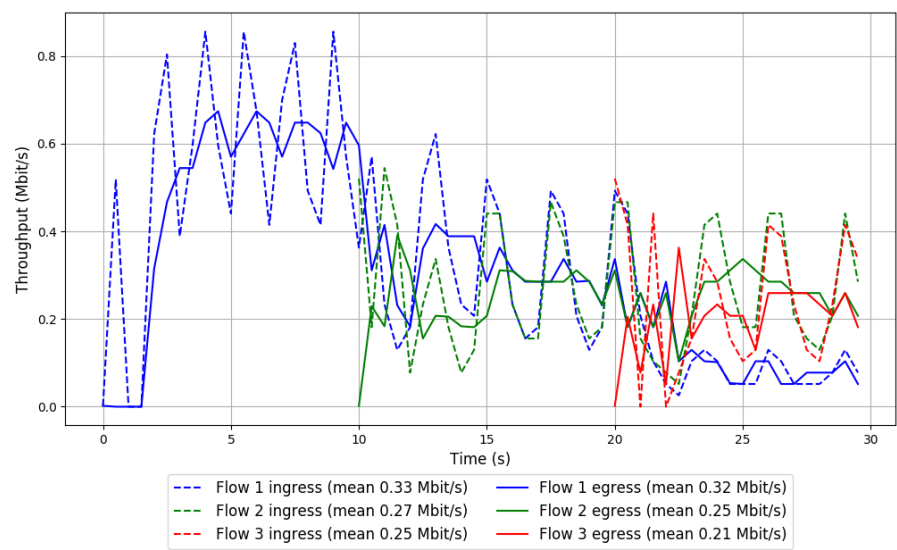
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 1017.674 ms

Loss rate: 18.12%

Run 1: Report of Copa — Data Link





Run 2: Statistics of Copa

Start at: 2018-04-16 23:30:47

End at: 2018-04-16 23:31:17

Local clock offset: -6.106 ms

Remote clock offset: 7.359 ms

# Below is generated by plot.py at 2018-04-17 01:13:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 1021.443 ms

Loss rate: 8.75%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 834.433 ms

Loss rate: 6.11%

-- Flow 2:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 1035.912 ms

Loss rate: 10.44%

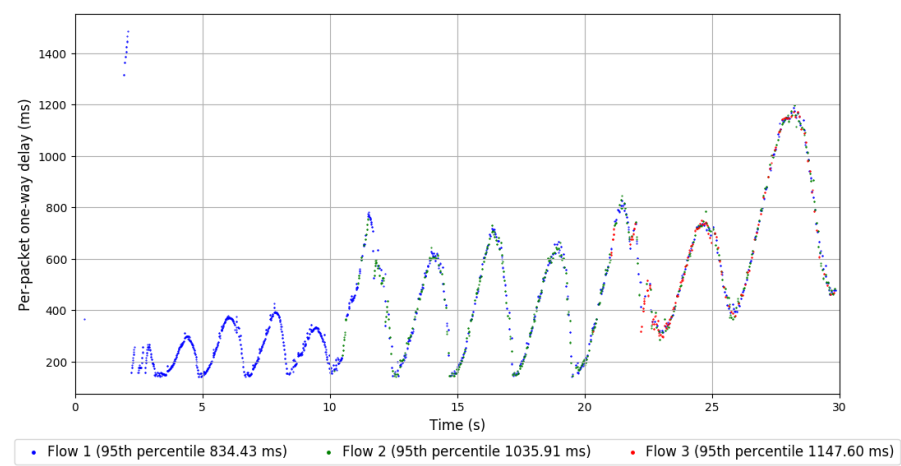
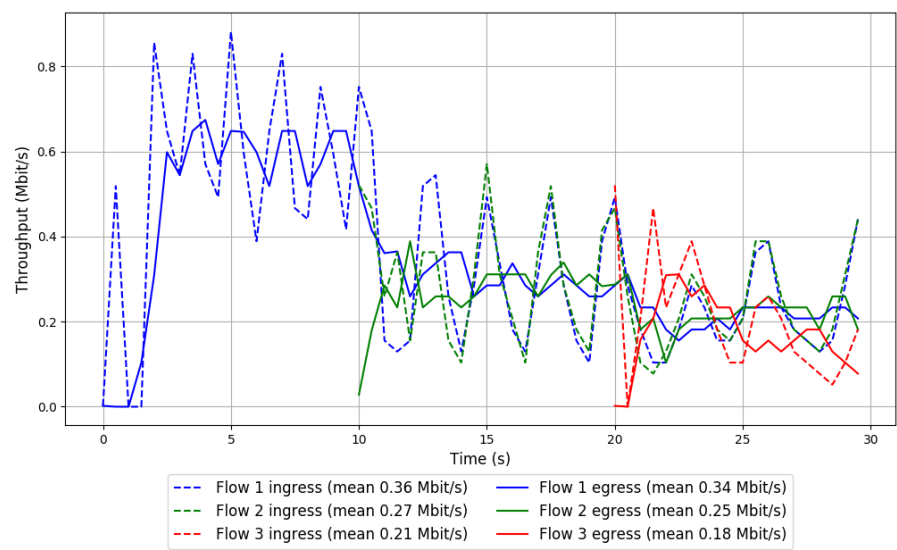
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 1147.603 ms

Loss rate: 18.12%

Run 2: Report of Copa — Data Link

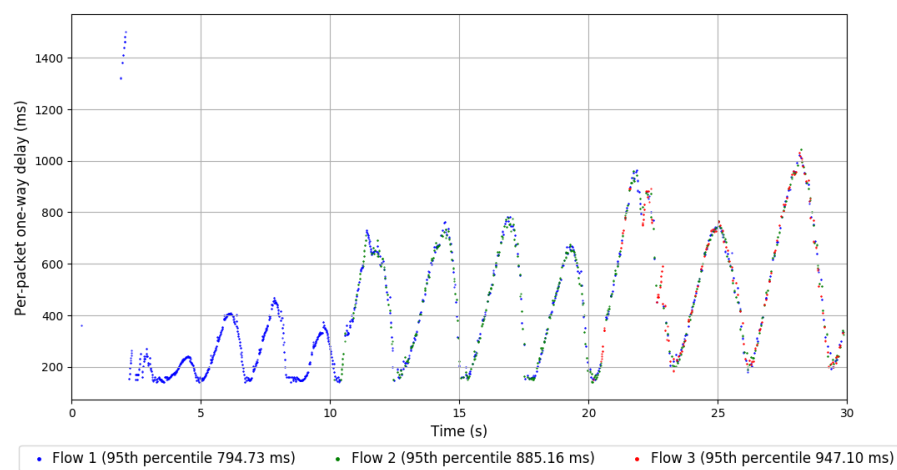
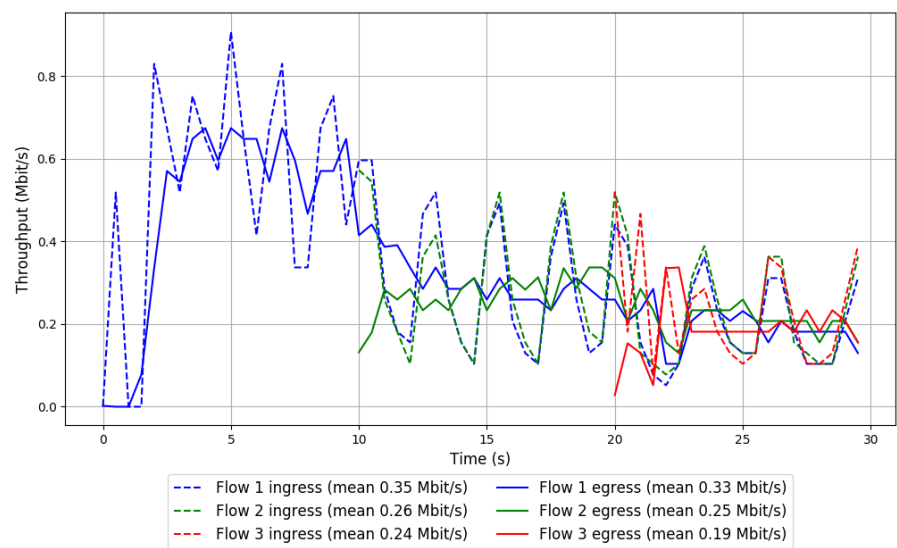


Run 3: Statistics of Copa

Start at: 2018-04-16 23:52:14  
End at: 2018-04-16 23:52:44  
Local clock offset: -5.384 ms  
Remote clock offset: 5.64 ms

# Below is generated by plot.py at 2018-04-17 01:13:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.56 Mbit/s  
95th percentile per-packet one-way delay: 878.454 ms  
Loss rate: 8.18%  
-- Flow 1:  
Average throughput: 0.33 Mbit/s  
95th percentile per-packet one-way delay: 794.725 ms  
Loss rate: 5.51%  
-- Flow 2:  
Average throughput: 0.25 Mbit/s  
95th percentile per-packet one-way delay: 885.158 ms  
Loss rate: 7.69%  
-- Flow 3:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 947.095 ms  
Loss rate: 21.07%

Run 3: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-04-16 23:18:09

End at: 2018-04-16 23:18:40

Local clock offset: -5.925 ms

Remote clock offset: 12.03 ms

# Below is generated by plot.py at 2018-04-17 01:13:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 17229.727 ms

Loss rate: 42.92%

-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 17210.367 ms

Loss rate: 42.73%

-- Flow 2:

Average throughput: 0.00 Mbit/s

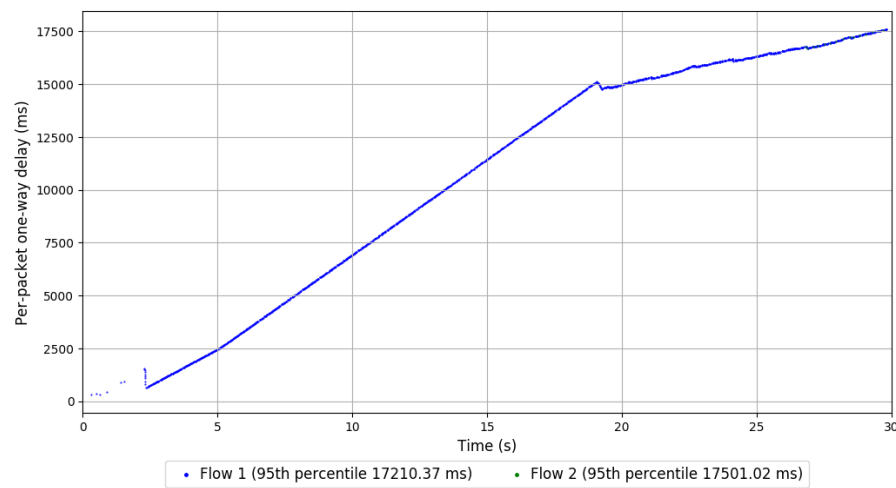
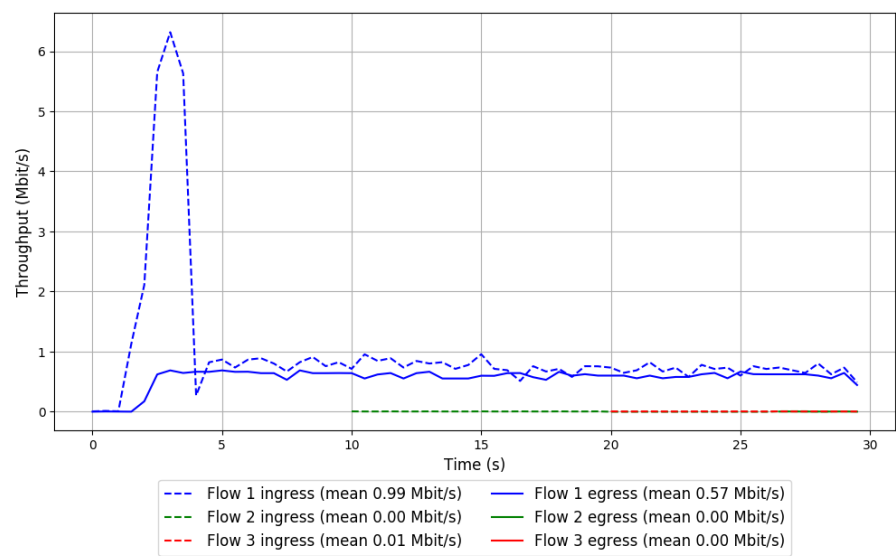
95th percentile per-packet one-way delay: 17501.019 ms

Loss rate: 82.56%

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-16 23:39:37

End at: 2018-04-16 23:40:07

Local clock offset: -4.65 ms

Remote clock offset: 6.617 ms

# Below is generated by plot.py at 2018-04-17 01:13:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 23416.963 ms

Loss rate: 63.33%

-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 23416.963 ms

Loss rate: 63.25%

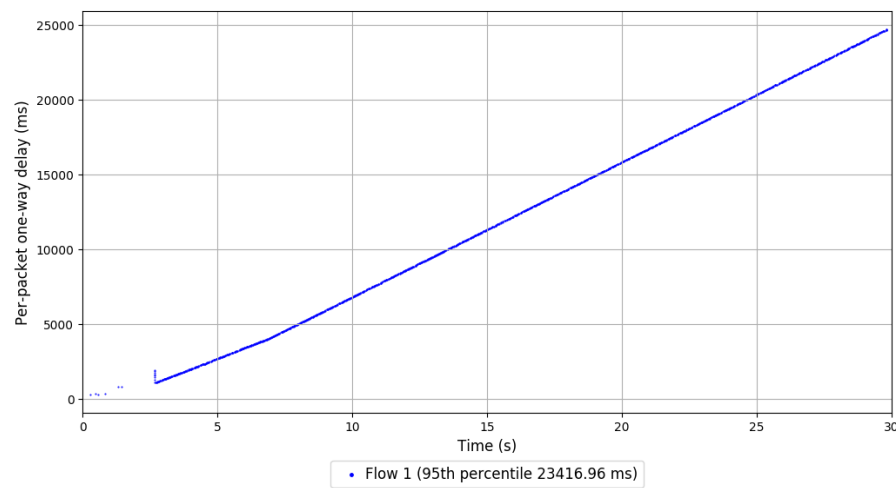
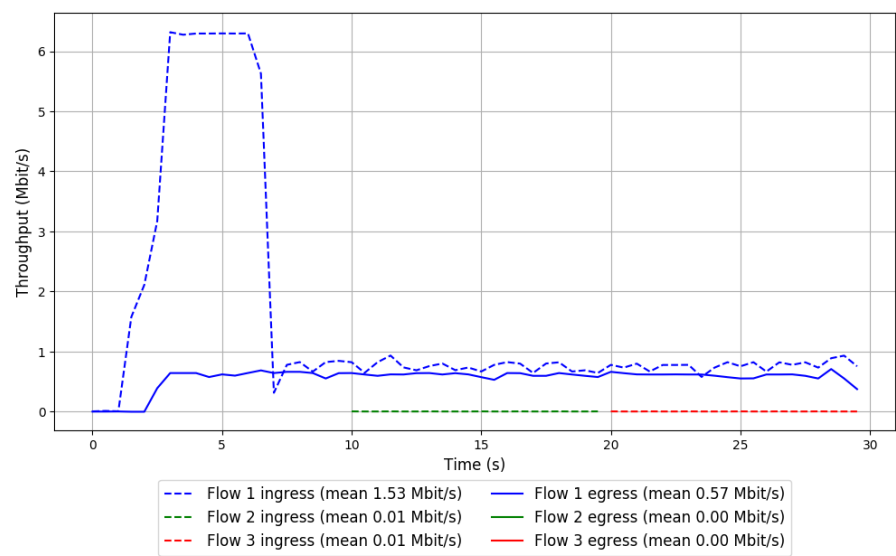
-- Flow 2:

Average throughput: 0.00 Mbit/s

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 2: Report of FillP — Data Link



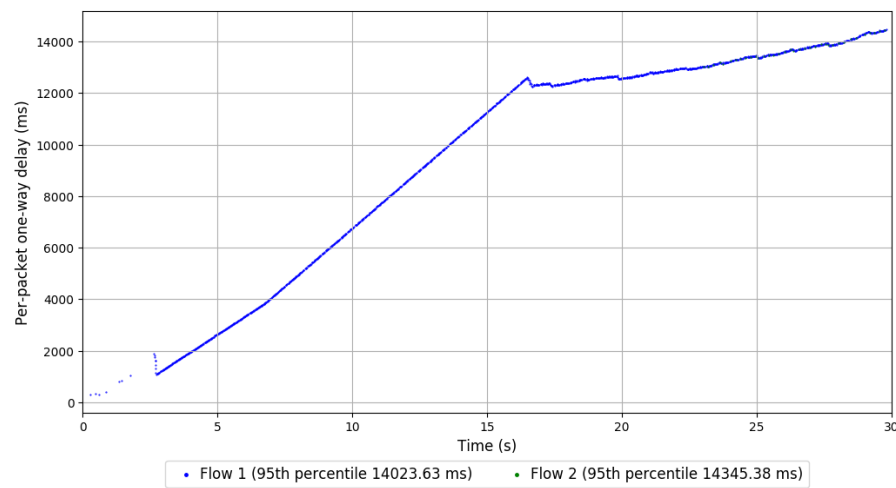
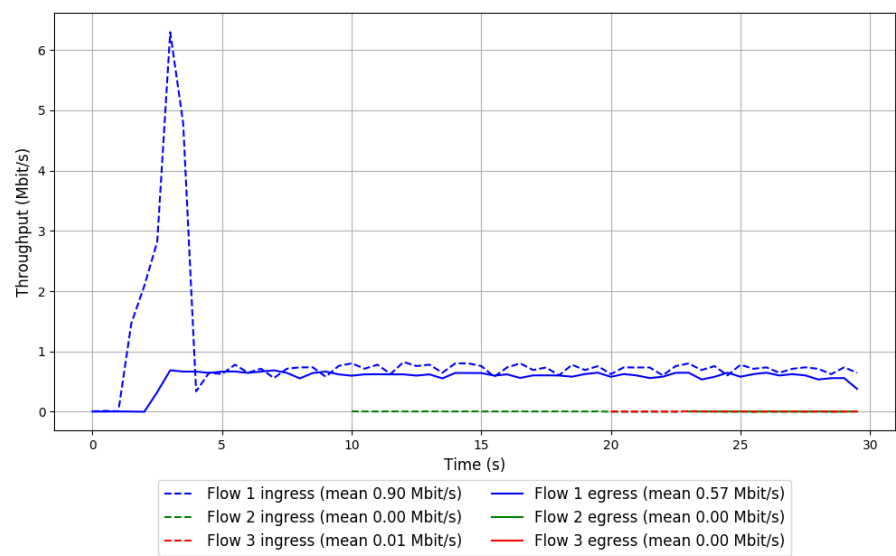


Run 3: Statistics of FillP

Start at: 2018-04-17 00:01:04  
End at: 2018-04-17 00:01:34  
Local clock offset: -5.402 ms  
Remote clock offset: 10.068 ms

# Below is generated by plot.py at 2018-04-17 01:13:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 14044.039 ms  
Loss rate: 38.42%  
-- Flow 1:  
Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 14023.630 ms  
Loss rate: 38.24%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 14345.383 ms  
Loss rate: 62.30%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s

Run 3: Report of FillP — Data Link

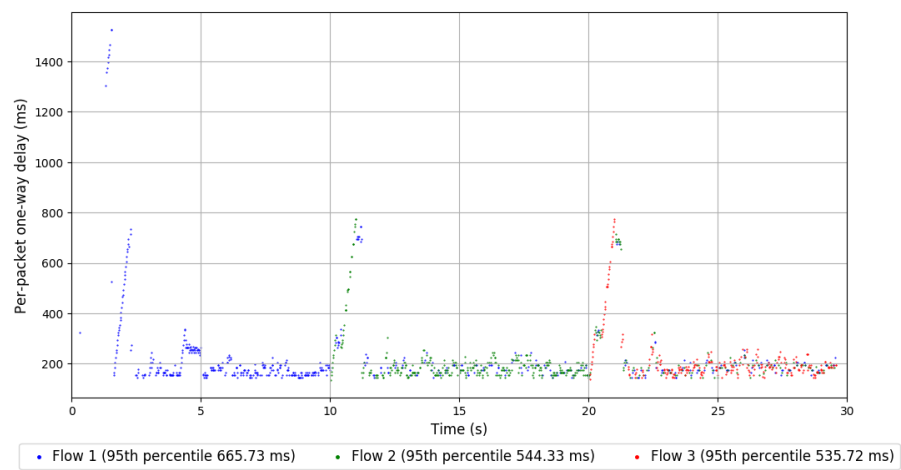
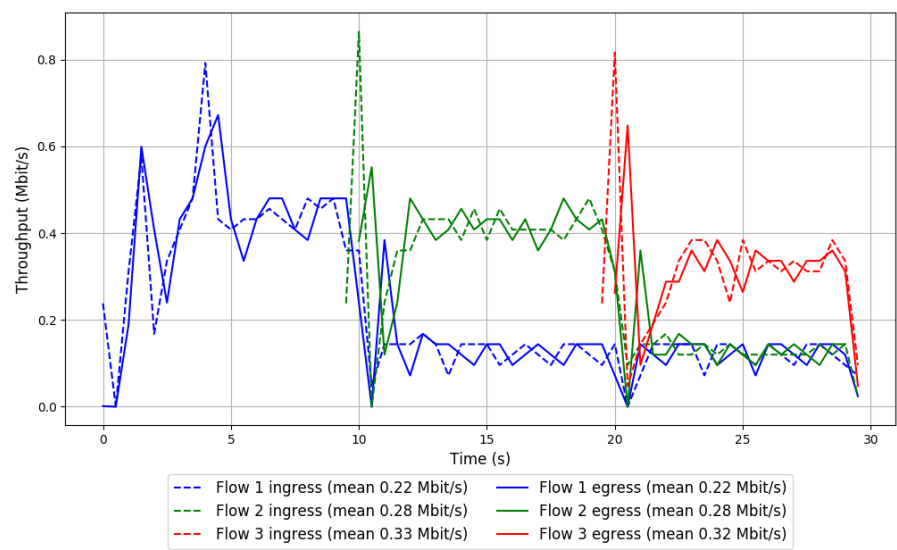


Run 1: Statistics of Indigo-1-32

Start at: 2018-04-16 23:05:29  
End at: 2018-04-16 23:05:59  
Local clock offset: -4.829 ms  
Remote clock offset: 11.887 ms

# Below is generated by plot.py at 2018-04-17 01:13:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.51 Mbit/s  
95th percentile per-packet one-way delay: 583.656 ms  
Loss rate: 2.11%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 665.734 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 0.28 Mbit/s  
95th percentile per-packet one-way delay: 544.330 ms  
Loss rate: 2.17%  
-- Flow 3:  
Average throughput: 0.32 Mbit/s  
95th percentile per-packet one-way delay: 535.720 ms  
Loss rate: 5.19%

Run 1: Report of Indigo-1-32 — Data Link

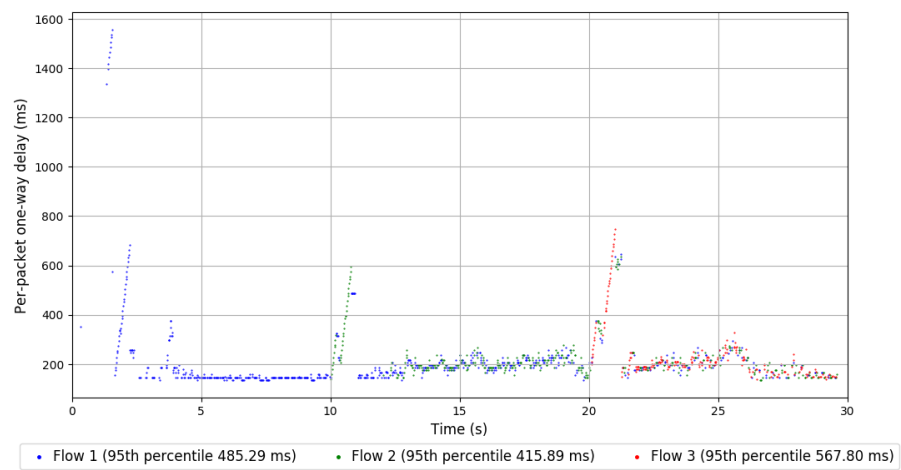
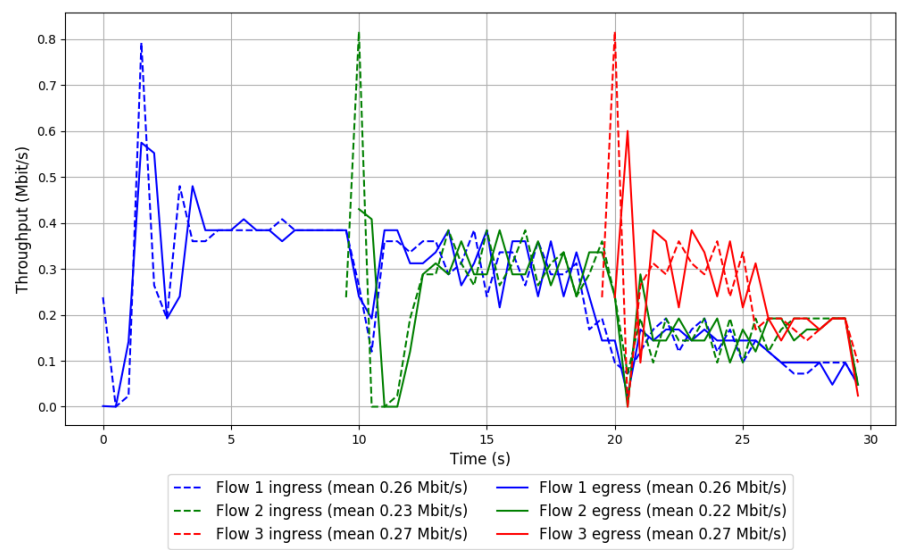


Run 2: Statistics of Indigo-1-32

Start at: 2018-04-16 23:26:59  
End at: 2018-04-16 23:27:29  
Local clock offset: -4.498 ms  
Remote clock offset: 13.016 ms

# Below is generated by plot.py at 2018-04-17 01:13:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.50 Mbit/s  
95th percentile per-packet one-way delay: 485.389 ms  
Loss rate: 2.18%  
-- Flow 1:  
Average throughput: 0.26 Mbit/s  
95th percentile per-packet one-way delay: 485.290 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 415.889 ms  
Loss rate: 3.43%  
-- Flow 3:  
Average throughput: 0.27 Mbit/s  
95th percentile per-packet one-way delay: 567.801 ms  
Loss rate: 5.41%

Run 2: Report of Indigo-1-32 — Data Link

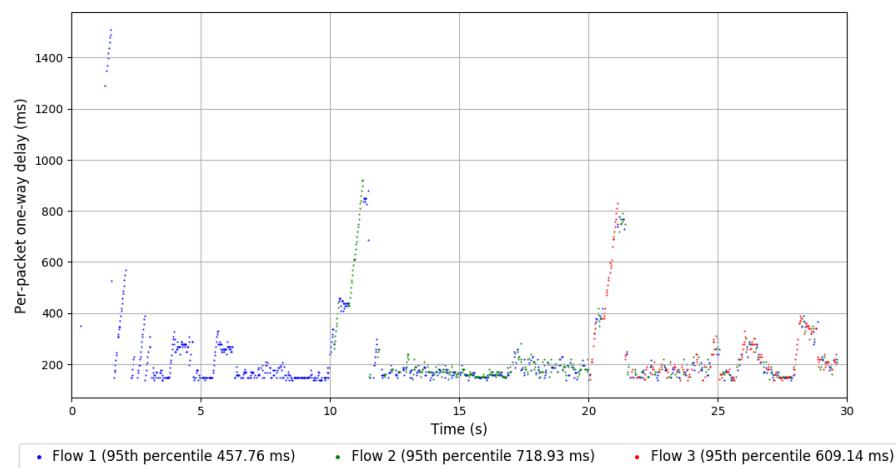
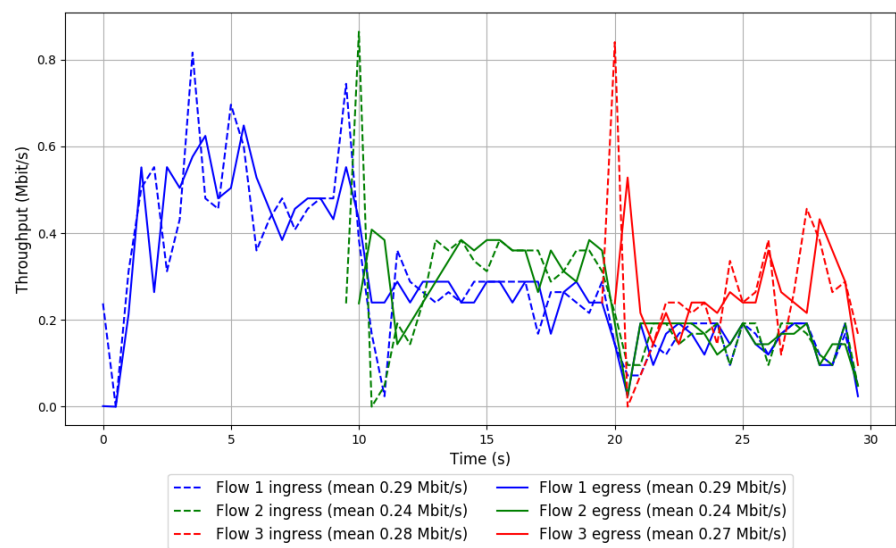


Run 3: Statistics of Indigo-1-32

Start at: 2018-04-16 23:48:26  
End at: 2018-04-16 23:48:56  
Local clock offset: -6.226 ms  
Remote clock offset: 12.375 ms

# Below is generated by plot.py at 2018-04-17 01:13:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.54 Mbit/s  
95th percentile per-packet one-way delay: 608.541 ms  
Loss rate: 2.52%  
-- Flow 1:  
Average throughput: 0.29 Mbit/s  
95th percentile per-packet one-way delay: 457.761 ms  
Loss rate: 1.67%  
-- Flow 2:  
Average throughput: 0.24 Mbit/s  
95th percentile per-packet one-way delay: 718.933 ms  
Loss rate: 1.74%  
-- Flow 3:  
Average throughput: 0.27 Mbit/s  
95th percentile per-packet one-way delay: 609.144 ms  
Loss rate: 6.50%

Run 3: Report of Indigo-1-32 — Data Link





Run 1: Statistics of PCC-Vivace

Start at: 2018-04-16 23:10:35

End at: 2018-04-16 23:11:05

Local clock offset: -5.683 ms

Remote clock offset: 6.259 ms

# Below is generated by plot.py at 2018-04-17 01:13:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 21067.216 ms

Loss rate: 71.76%

-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 21067.216 ms

Loss rate: 71.75%

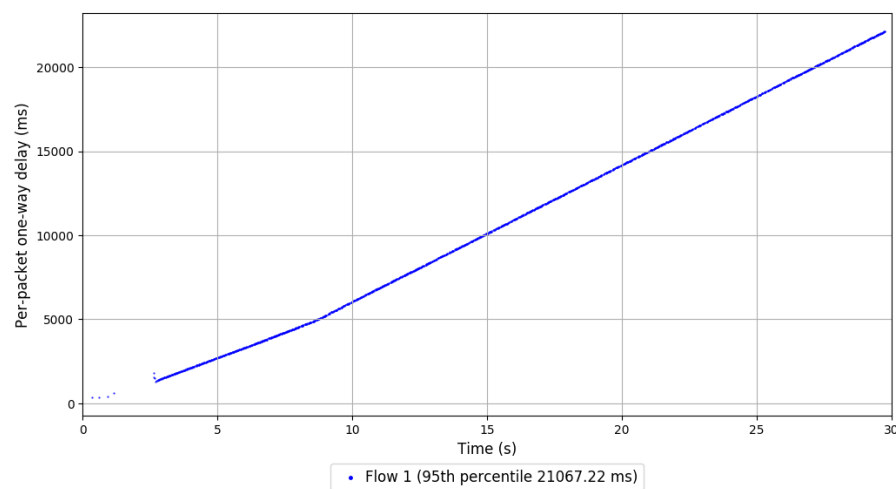
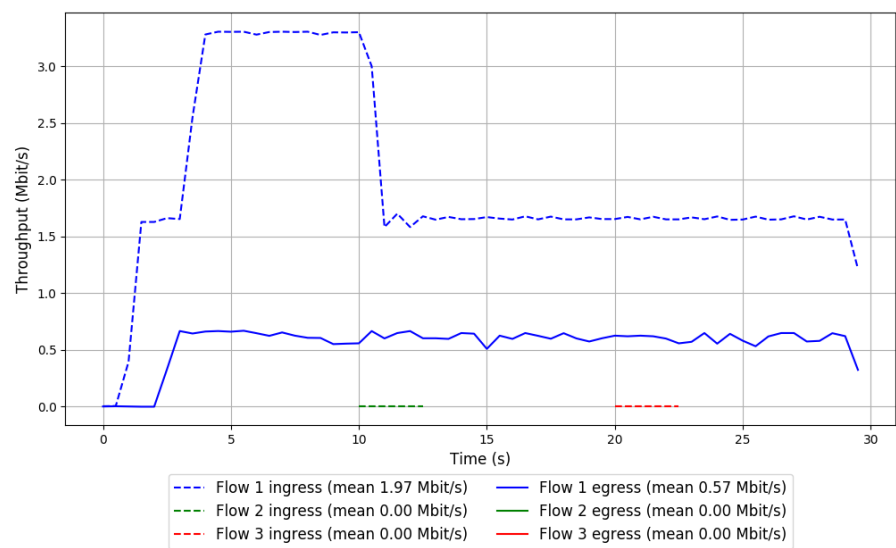
-- Flow 2:

Average throughput: 0.00 Mbit/s

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 1: Report of PCC-Vivace — Data Link

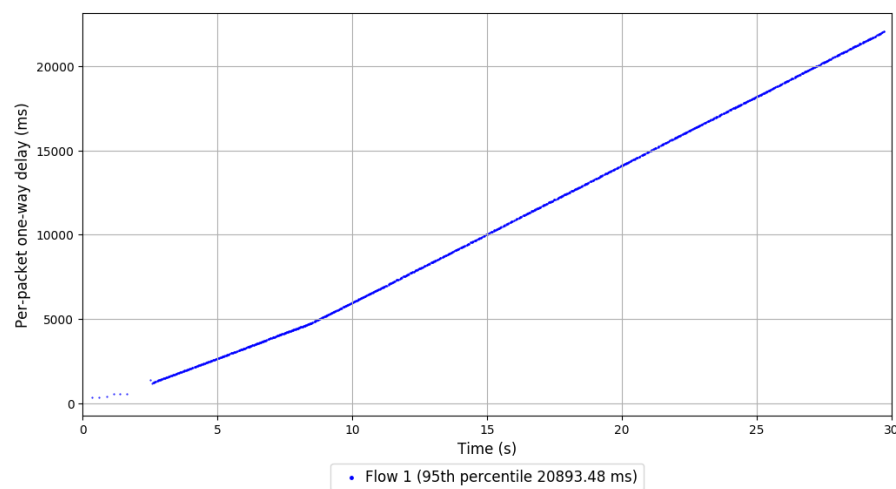
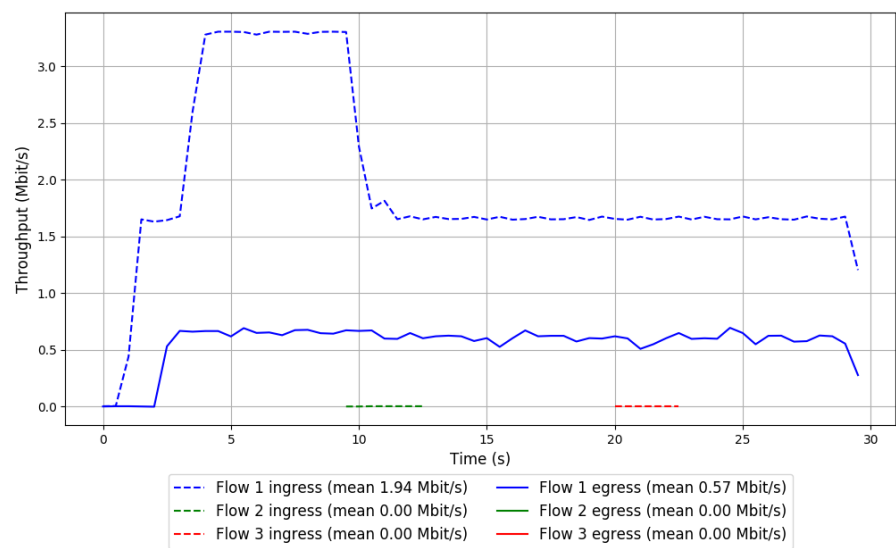


Run 2: Statistics of PCC-Vivace

Start at: 2018-04-16 23:32:03  
End at: 2018-04-16 23:32:33  
Local clock offset: -6.164 ms  
Remote clock offset: 13.024 ms

# Below is generated by plot.py at 2018-04-17 01:13:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 20893.481 ms  
Loss rate: 70.91%  
-- Flow 1:  
Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 20893.481 ms  
Loss rate: 70.90%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
-- Flow 3:  
Average throughput: 0.00 Mbit/s

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-16 23:53:30

End at: 2018-04-16 23:54:00

Local clock offset: -6.127 ms

Remote clock offset: 5.46 ms

# Below is generated by plot.py at 2018-04-17 01:13:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 21050.728 ms

Loss rate: 71.22%

-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 21050.728 ms

Loss rate: 71.21%

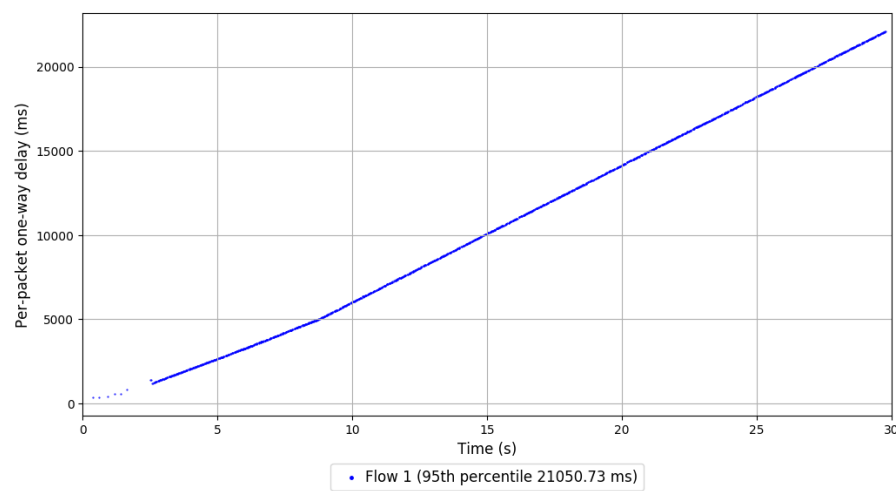
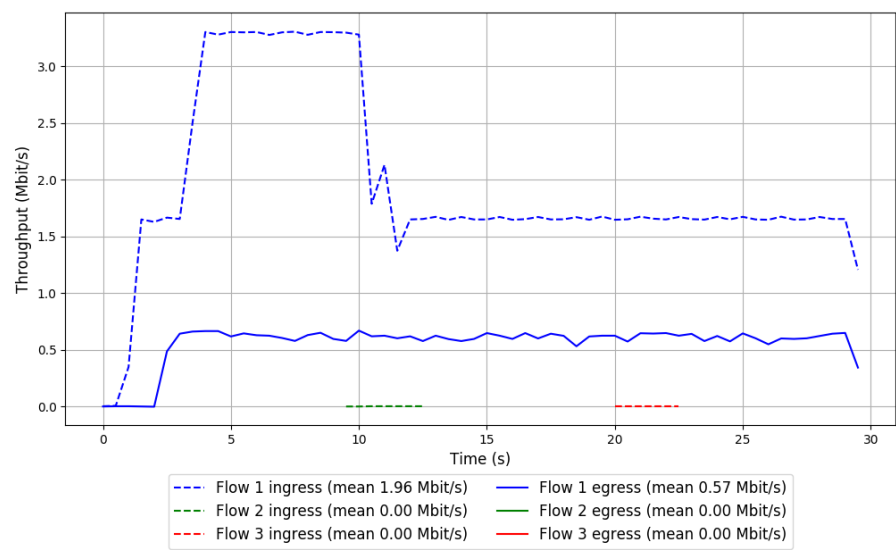
-- Flow 2:

Average throughput: 0.00 Mbit/s

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 3: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-16 23:20:42

End at: 2018-04-16 23:21:12

Local clock offset: -5.194 ms

Remote clock offset: 11.23 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing



Run 2: Statistics of PCC-Expr

Start at: 2018-04-16 23:42:08

End at: 2018-04-16 23:42:38

Local clock offset: -5.431 ms

Remote clock offset: 12.983 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-17 00:03:36

End at: 2018-04-17 00:04:06

Local clock offset: -6.211 ms

Remote clock offset: 5.962 ms

### Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing